Family 7965+02 IBM Enterprise Slim Rack (MTM 7965-S42)

IBM Europe Sales Manual
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Product life cycle dates

Type Model	Announced	Available	Marketing Withdrawn	Service Discontinued
7965-S42	2017-06-13	2017-06-23	-	-

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Abstract

The Enterprise Slim Rack provides an excellent 19-inch rack enclosure for your data center. Its 600 mm (23.6 in.) width enables it to be easily located on standard 24-inch floor tiles and provides thermal and cable management capabilities. Its 600 mm (23.6 in.) width combined with its 1100 mm (43.3 in.) depth plus its 42 EIA enclosure capacity provides great footprint efficiency for your systems.

Compared to the 7965-94Y Slim Rack, the Enterprise Slim Rack provides additional strength and additional shipping/installation flexibility.

IBM Manufacturing supports the integration of POWER9 servers and I/O drawers in the 7965-S42 rack. However, this is a standard 19-inch rack and clients can choose to use it as it makes sense in their environment. If clients have questions, they can work with IBM Service to determine if there are any specific considerations for their environment.

Model abstract 7965-S42

The IBM Enterprise 7965 Model S42 has 42 EIA units of vertical mounting space.

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Highlights

The IBM Enterprise Slim Rack (7965-S42) is designed to offer great footprint efficiency for your systems. The Enterprise Slim Rack offers:

- 600 mm width to fit within a 24-inch floor tile
- 1100 mm rack depth for cable management space
- Up to four power distribution units (PDUs) in rack side pockets
- Optional high-efficiency Rear Door Heat Exchanger (1164-95X)
- Removable top 2U rack hat
- Optional Rack Rear Extension 5 Inches
- Optional airflow-cooled system
- Optional water-cooled system

Optional ruggedized rack feature provides added earthquake protection with a front and rear brace, concrete floor bolt down hardware, and bolt-in steel front filler panels. The rack conforms to the zone 4 earthquake requirements of Ericsson's GR-63-CORE with the rack loaded up to 20.4 kg (45 lb)/EIA.

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Description

Standard features of the Enterprise Slim Rack include:

- Front tip plate
- Air dam for controlling airflow between the rack and floor
- Round mounting holes following the EIA 310-D standard
- Interior (rail-to-rail) depth of 715 mm (about 28 in.)
- Four leveling feet
- Cable egress ports on both top and bottom of rack

Due to safety considerations, the top area of the rack may not be loaded with equipment when shipped. Due to its height, special shipping and handling procedures may be required. Before shipping, IBM Manufacturing will add black snap-in front filler panels for rack space that will be unoccupied. The filler panels help control airflow and improve the rack's appearance.

The Enterprise Slim Rack front door, which can be Basic Black/Flat (#ECRM), High-End appearance (#ECRF), or OEM black (#ECRE), has perforated steel, providing ventilation, physical security, and visibility of indicator lights in the installed equipment within. It comes standard with a lock that is identical to the locks in the rear doors. The door (#ECRG and #ECRE only) can be hinged on either the left or right side.
Note: Feature ECRF should not be flipped because the IBM logo will be upside down.

Features ECRM, ECRF, and ECRE are mutually exclusive and one of the front door features must be selected.

In the rear of the Slim Rack, either a perforated rear steel door (#ECRG) or a Rear Door Heat Exchanger (RDHX) is used. Feature ECRG is physically identical to the feature ECRM front door except for a logo on the feature ECRM. Feature ECRG includes a lock and can be hinged on either the left or right side, depending on the needs of the client. Feature ECR2 is ordered using machine type 1164-95X for a 7965-S42 Rack. Features ECRG and ECR2 are mutually exclusive and one of the rear door features must be selected.

The RDHX indicator feature ECR2 is a no-charge code that can be used when ordering the Enterprise Slim Rack 7965-S42. Feature ECR2 ships no hardware, but indicates to IBM Configuration tools that a feature ECRG rear door is not required because a 1164-95X RDHX is going to be used. The following rules apply to feature ECR2:

- If feature ECR2 is ordered on the 7965-S42 without features EDCL, EDC0, or EDCS, then 1164-95X is required with the rack order. The 1164-95X also requires feature ECR2.
- If feature ECR2 is ordered with feature ECR1, then the order must have at least one air management kit (#ECRP).
- If feature ECR2 is ordered without ECR1, then a quantity of two of feature ECRP, ECRJ, or ECRH is required.
- If feature ECR2 and ECR1 are selected, then a quantity of two of feature ECRP, or a quantity of one of feature ECRP and one of feature ECRJ, or a quantity of one of feature ECRP and one of feature ECRH, is required.

Clients can select a quantity of zero, one, or two side cover features (ECRJ or ECRH), these features can be mixed. Feature ECRJ is defaulted to a quantity of two. Side panels, either Rack Side Cover (Black) (feature ECRJ) or Optional Side Cover High-End Appearance for Rack (feature ECRH), increase the rack's aesthetics, help control airflow through the rack, help shield against electromagnetic energy emitted by equipment in the rack, and improve security by controlling the access into the rack.

Side panels (#ECRJ or #ECRH) are optional for those clients that plan to attach one rack to another rack. Having side panels between the racks may improve airflow. However, without the side panels, routing cables between the two connected racks may be simplified or shortened by avoiding exiting the rack through top or bottom egress holes of one rack and reentering the other rack. Normal physical planning considerations must be used to ensure cables are not bent too tightly and that adequate slack exists to allow equipment to be slid forward or backward in the rack for service access. Note that although Suite Attach can improve stability, this does not meet certification tests required for earthquake-related certifications.

If you need optimized airflow with the Side/Side Attachment Kit (feature ECR1), then the Airflow Management Kit (feature ECRP) is required in a quantity of one or two. Feature ECR1 includes hardware for rack attach.

The Slim Rack has side pockets or bays in which up to four PDUs can be vertically mounted and thus do not use the rack's Enterprise space. Two bays are located on the left rear side and two bays on the right rear side. Additional PDUs can be mounted horizontally, but then each uses 1 EIA (1U) of the rack's Enterprise space.

IBM Manufacturing supports placing the following 1U PDUs in the Slim Rack S42:

- High Function 9xC19 PDU: Switched, Monitoring (#EPTJ)
- High Function 12xC13 PDU: Switched, Monitoring (#EPTN)
- Power Distribution Unit (#7188)
- High Function 9xC19 PDU 3-Phase: Switched, Monitoring (already contains a fixed linecord)(#EPTL)
- High Function 12xC13 PDU 3-Phase: Switched, Monitoring (already contains a fixed linecord)(#EPTQ)

In addition to the above PDUs, High-Function PDU feature EPTT offers an intelligent, switched 480/277 volt 3-phase AC Power Distribution Unit (PDU) with 36 Rong Feng (RF) 203P-M receptacles and six IEC 320-C13 receptacles on the PDU.

The PDU is mounted in the cable management space of the rack. Each pair of RF 203P-M receptacles has a 20 amp circuit breaker derated to 16 amps and all six IEC 320-C13 receptacles are fed from a single 15 amp circuit breaker derated to 12 amps.

Device power cords with RF 203-M plugs connect to RF 203P-M PDU receptacles and are ordered separately. Device power cords with IEC 320-C14 plugs connect to IEC 320-C13 PDU receptacles and are ordered separately. One wall line cord is provided with the PDU (no separate feature code) and has a 5-wire un-terminated input. The PDU supports up to 80 amps per 277 V AC phase.

One RJ45 port in the middle of the PDU enables the client to monitor incoming electrical power usage by phase and to remotely switch on or off a pair of IEC 320-C13 receptacles. The PDU is shipped with a generic PDU password and IBM strongly urges clients to change it upon installation.

The PDU is mounted on either the left or the right side of the rack. It is tall, essentially the height of the interior of the 42U rack..

See the Limitations section for PDU placement restrictions.

If IBM Manufacturing places the PDU horizontally, then horizontal mounting brackets are included (except for the tall PDU feature EPTT). PDUs that are shipped separately or preinstalled in a vertical side pocket do not come with the horizontal mounting brackets.

One PDU Access Cord 0.38m (#ELC0) must be used for each vertically mounted feature EPTJ or EPTN or 7188 PDU in the Slim Rack to make it easier to plug/unplug the PDU from its power source. The PDU Access cord attaches to the UTG0247 connector of the feature EPTJ, EPTN, or 7188. The power cord in PDU EPTL or EPTQ is not detachable from the PDU and thus does not need a feature ELC0.

The 5-Inch Rack Rear Extension (#ECRK) expands the space available for cable management and may enhance airflow. The expansion is installed at the client location and is not installed by IBM Manufacturing. All rear door options are supported with the expansion.

The optional Airflow Management Kit for Rack (#ECRP) helps ensure optimal airflow through the rack and is required when a RDHX is used. Feature ECRP in a quantity of two provides airflow management for both sides of the rack. Feature ECRP in a quantity of one provides airflow management for only one half of the rack.

The optional water cooling manifold (either #ECR3 or #ECR4) enables water cooling of servers in the rack. Water cooling is more efficient than air cooling and greatly reduces the warm air coming from the rack equipment and may enable processors to run slightly faster. Air fans run slower, reducing noise in the machine room. The IBM Enterprise Slim Rack supports water-cooled and air-cooled systems in the same rack.

These manifolds are available for initial orders only (need to be integrated in the Slim rack in manufacturing). When either feature ECR3 or ECR4 is selected, PDU vertical slots 2 and 4 will be blocked (Manifold will always be on the right side as seen from the rear). Features ECR3 and ECR4 are mutually exclusive. If Water Cooling Manifold - Top Input/output for Rack (#ECR3) is selected, then the specify feature ER2T is required to reserve 2U space at the top of the rack. If Water Cooling Manifold - Bottom Input/output for Rack (#ECR4) is selected, then the specify feature ER2B is required to reserve 2U space at the bottom of the rack. The defaulted feature is ER2B. Up to 20 water-cooled systems are allowed in a rack.

Reliability, Availability, and Serviceability

Not applicable.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the Product accessibility information website.

Section 508 of the US Rehabilitation Act

IBM Enterprise Slim Rack is capable as of June 23, 2017, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be found on the Product accessibility information website.

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Models

Model summary matrix

Model	EIA units
S42	42 EIA units of vertical mounting space

Customer setup (CSU)

Yes.

Devices supported

Not applicable.

Model conversions

Not available.

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Technical description

Physical specifications

IBM Enterprise Slim 7965 Model S42 Rack:

- Width:
  - 600 mm (23.6 in.) with airflow management kit feature ECRP
  - 624 mm (24.5 in.) with side panels
- Depth (without 5-inch rack extension):
  - 1200 mm (47.2 in.) with front and rear doors
  - 1070 mm (42.12 in.) without front and rear doors
- Back cable depth: 280mm (11 in.)
- Height:
  - 2020 mm (79.5 in.) with top rack extension
  - 1899 mm (74.7 in.) with removed top rack extension
- Weight (Empty rack with doors and side panels): 177 kg (391 lb)
- Dynamic capacity (rolling capacity) = 1134 kg (2500 lb) [average of 18.1 kg (40 lb)/EIA]
- Static capacity = 1678 kg (3700 lb) [average of 31.7 kg (70 lb)/EIA]
- Seismic zone 4 certified capacity = 1170 kg (2580 lb) [maximum 20.4 kg (45 lb)/EIA]

To assure installability and serviceability in non-IBM industry-standard racks, review the installation planning information for any product-specific installation requirements.

Operating environment

- Temperature: 5 to 40 degrees C (41 to 104 degrees F)
- Relative humidity: -12C DP and 8% to 85%
- Maximum dew point: 24 degrees C (75.2 degrees F)
- Sound power: None
- Electrical power: When ordered with optional PDU
  - Operating voltage: 200 V AC - 240 V AC 50 Hz/60 Hz single-phase worldwide, 380 V AC - 415 V AC 50 Hz/60 Hz three-phase wye, 208 V AC three-phase delta.
  - Power source loading: Depends on the PDU (rack may have up to 14 PDUs).

The rack power distribution system provides 200 V AC - 240 V AC (50 Hz/60 Hz) to the system components (drawers).

7965-S42 Rack

- Power consumption in active mode: 0 watts
- Power consumption in energy savings mode: 0 watts

Note: Operating environment per ASHRAE class A3, final ASHRAE class will be dictated by the hardware installed in the rack and that the individual technical specifications for each piece of hardware should be reviewed.

Limitations

Rack doors/side panels:

- A rack must have a front door feature ECRM or ECRF.
- If you need optimized airflow with feature ECR1, then feature ECRP is required in a quantity of one or two. Feature ECR1 includes hardware for rack attach.
- Maximum quantity of one of side panels (features ECRJ or ECRH) is allowed with feature ECR1.
- Either a standard rear door (feature ECRG) or the RDHX Indicator (feature ECR2) must be on an Enterprise Slim Rack (7965-S42) order. Feature ECR2 indicates that the RDHX (1164-95X) is ordered for the 7965-S42 rack. Features ECR2 and ECRG are mutually exclusive.

Power distribution units (PDU):

- A minimum of two PDUs is highly recommended and is required for each system for redundancy (except for tall PDU feature EPTT). Additional PDUs can be added (except for tall PDU feature EPTT).
- One rack line cord is needed for each PDU feature 7188, EPTJ, and EPTN. The total rated amperage will depend on the line cord. PDUs features EPTL and EPTQ already contain a fixed linecord.
- Each PDU consumes one of four vertical mounting bays or side pocket Each PDU beyond four will be mounted horizontally and consume 1U of rack space. Therefore, the U capacity of the rack is reduced by the number of PDUs ordered beyond four (except for tall PDU feature EPTT).

Rack-integrated system with Expansion Drawer

Regardless of the rack-integrated system to which the PCIe Gen3 I/O Expansion Drawer is attached to, if the expansion drawer is ordered as factory integrated, the PDUs in the rack will be defaulted to be placed horizontally to enhance cable management.

Expansion drawers complicate the access to vertical PDUs if located at the same height. IBM recommends accommodating PDUs horizontally on racks containing one or more PCIe Gen3 I/O Expansion Drawers.

When the rack with expansion drawers is delivered to the client, the client is allowed to rearrange the PDUs from horizontal to vertical. However, the configurator continues to consider the PDUs as being placed horizontally for the matter of calculating the free space still available in the rack.

When IBM Manufacturing is factory integrating the rack, vertical PDUs can be used only if CSRP (#0469) is on the order. When specifying CSRP, the client will provide the locations where the PCIe Gen3 I/O Expansion Drawers must be placed, avoiding locating those adjacent to vertical PDU locations, EIA 6 through 16 and 21 through 31.

Hardware requirements

Not applicable.

Software requirements

Not applicable.

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Publications

Power Systems hardware documentation provides you with the following topical information:

- System overview
- Planning for the system
- Installing and configuring the system
- Working with consoles, terminals, and interfaces
- Managing system resources
- Working with operating systems and software applications
- Troubleshooting, service, and support

The following information is shipped with the 7965-S42:

- Power Hardware Information DVD SK5T-7087
- Installing the 7965-S42
- Safety Information
- Statement of Warranty

See the Support for IBM Systems The above url has changed from [http://www.ibm.com/systems/support] to [https://support.podc.sl.edst.ibm.com/support/home/]

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National language support

Not applicable.

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Features

Features - No charge
Features - Chargeable
Feature availability matrix
Feature descriptions

Features - No charge

- NONE

Features - Chargeable

Special Features - Initial Orders

- Administrative
  - (#ECL0) -Power ACP solution specify
  - (#ECP0) -Cloud Private Solution
  - (#EDC0) -ORNL Config Specify - Compute Rack
  - (#EDCL) -LLNL Config Specify - Compute Rack
  - (#EDCS) -ORNL/LLNL Config Specify - Infrastructure Racks
  - (#ESC1) -Rack S&H-a
- Miscellaneous
  - (#9002) -Field Integration Indicator, Ship Empty Rack
  - (#9461) -Month Indicator
  - (#9462) -Day Indicator
  - (#9463) -Hour Indicator
  - (#9464) -Minute Indicator
  - (#EGLA) -ESS GL3S Solution Specify (4TB HDD) - 1000TB raw disk capacity
  - (#EGLB) -ESS GL3S Solution Specify (8TB HDD) - 2000TB raw disk capacity
  - (#EGLC) -ESS GL3S Solution Specify (10TB HDD) - 2500TB raw disk capacity
  - (#EGLD) -ESS GL3S Solution Specify (14TB HDD) - 3500TB raw disk capacity
  - (#EGLE) -ESS GL3C Solution Specify (10TB HDD) - 3160TB raw disk capacity
  - (#EGLF) -ESS GL3C Solution Specify (14TB HDD) - 4424TB raw disk capacity
  - (#ESCF) -ESS SC1 Solution Specify
  - (#ESCG) -ESS SC2 Solution Specify
  - (#ESCH) -ESS SC3 Solution Specify
  - (#ESCJ) -ESS SC4 Solution Specify
  - (#ESCK) -ESS SC5 Solution Specify
  - (#ESCL) -ESS SC6 Solution Specify
  - (#ESCM) -ESS SC7 Solution Specify
  - (#ESCN) -ESS SC8 Solution Specify
  - (#ESL1) -ESS SL1 Solution Specify
  - (#ESL2) -ESS SL2 Solution Specify
  - (#ESL3) -ESS SL3 Solution Specify
  - (#ESL4) -ESS SL4 Solution Specify
  - (#ESL5) -ESS SL5 Solution Specify
  - (#ESL6) -ESS SL6 Solution Specify
  - (#ESS0) -ESS Solution Specify
  - (#ESS1) -ESS GL2S Solution Specify (4TB HDD)
  - (#ESS2) -ESS GL2S Solution Specify (8TB HDD)
  - (#ESS3) -ESS GL2S Solution Specify (10TB HDD)
  - (#ESS4) -ESS GL4S Solution Specify (4TB HDD)
  - (#ESS5) -ESS GL4S Solution Specify (8TB HDD)
  - (#ESS6) -ESS GL4S Solution Specify (10TB HDD)
  - (#ESS7) -ESS GL6S Solution Specify (4TB HDD)
  - (#ESS8) -ESS GL6S Solution Specify (8TB HDD)
  - (#ESS9) -ESS GL6S Solution Specify (10TB HDD)
  - (#ESSD) -ESS GS1S Solution Specify (3.84TB SSD) - 92TB raw disk capacity
  - (#ESSE) -ESS GS1S Solution Specify (15.36TB SSD) - 368TB raw disk capacity
  - (#ESSF) -ESS GS2S Solution Specify (3.84TB SSD) - 184TB raw disk capacity
  - (#ESSG) -ESS GS2S Solution Specify (15.36TB SSD) - 737TB raw disk capacity
  - (#ESSK) -ESS GS4S Solution Specify (3.84TB SSD) - 368TB raw disk capacity
  - (#ESSL) -ESS GS4S Solution Specify (15.36TB SSD) - 1474TB raw disk capacity)
  - (#EST1) -ESS GH12 Solution Specify (3.84TB SSD & 4TB HDD) - 756TB raw disk capacity
  - (#EST2) -ESS GH12 Solution Specify (3.84TB SSD & 8TB HDD) - 1420TB raw disk capacity
  - (#EST3) -ESS GH12 Solution Specify (3.84TB SSD & 10TB HDD) - 1752TB raw disk capacity
  - (#EST4) -ESS GH12 Solution Specify (15.36TB SSD & 4TB HDD) - 1033TB raw disk capacity
  - (#EST5) -ESS GH12 Solution Specify (15.36TB SSD & 8TB HDD) - 1697TB raw disk capacity
  - (#EST6) -ESS GH12 Solution Specify (15.36TB SSD & 10TB HDD) - 2029TB raw disk capacity
  - (#ESTA) -ESS GL1S solution specify (4 TB HDD) - 328 TB raw disk capacity
  - (#ESTB) -ESS GL1S solution specify (8 TB HDD) - 656 TB raw disk capacity
  - (#ESTC) -ESS GL1S solution specify (10 TB HDD) - 820 TB raw disk capacity
  - (#ESTE) -ESS GH14 solution specify (3.84TB SSD & 4TB HDD) - 1428TB raw disk capacity
  - (#ESTF) -ESS GH14 solution specify (3.84TB SSD & 4TB HDD) - 2764TB raw disk capacity
  - (#ESTG) -ESS GH14 solution specify (3.84TB SSD & 4TB HDD) - 3436TB raw disk capacity
  - (#ESTH) -ESS GH14 solution specify (15.36TB SSD & 4TB HDD) - 1704TB raw disk capacity
  - (#ESTJ) -ESS GH14 solution specify (15.36TB SSD & 8TB HDD) - 3040TB raw disk capacity
  - (#ESTK) -ESS GH14 solution specify (15.36TB SSD & 10TB HDD) - 3708TB raw disk capacity
  - (#ESTL) -ESS GH24 solution specify (3.84TB SSD & 4TB HDD) - 1520TB raw disk capacity
  - (#ESTM) -ESS GH24 solution specify (3.84TB SSD & 8TB HDD) - 2856TB raw disk capacity
  - (#ESTN) -ESS GH24 solution specify (3.84TB SSD & 10TB HDD) - 3524TB raw disk capacity
  - (#ESTP) -ESS GH24 solution specify (15.36TB SSD & 4TB HDD) - 2073TB raw disk capacity
  - (#ESTQ) -ESS GH24 solution specify (15.36TB SSD & 8TB HDD) - 3409TB TB raw disk capacity
  - (#ESTR) -ESS GH24 solution specify (15.36TB SSD & 10TB HDD) - 4070TB TB raw disk capacity

- (#ESTR) -ESS GH24 solution specify (15.36TB SSD & 10TB HDD) - 40701B TB raw disk capacity

- (#ESTS) -ESS GL1C Solution Specify (10TB HDD) - 1040TB raw disk capacity
- (#ESTT) -ESS GL2C Solution Specify (10TB HDD) - 2100TB raw disk capacity
- (#ESTU) -ESS GL4C Solution Specify (10TB HDD) - 4220TB raw disk capacity
- (#ESTW) -ESS GL6C Solution Specify (10TB HDD) - 6340TB raw disk capacity
- (#ESTX) -ESS GL4C with copper SAS Cables Solution Specify (10TB HDD) - 4220TB raw disk capacity
- (#ESZ0) -ESS GH12 Solution Specify (3.84TB SSD & 14TB HDD) - 2416TB raw disk capacity
- (#ESZ1) -ESS GH12 Solution Specify (15.36TB SSD & 14TB HDD) - 2693TB raw disk capacity
- (#ESZ2) -ESS GH22 Solution Specify (3.84TB SSD & 4TB HDD) - 848TB raw disk capacity
- (#ESZ3) -ESS GH22 Solution Specify (3.84TB SSD & 8TB HDD) - 1512TB raw disk capacity
- (#ESZ4) -ESS GH22 Solution Specify (3.84TB SSD & 10TB HDD) - 1844TB raw disk capacity
- (#ESZ5) -ESS GH22 Solution Specify (3.84TB SSD & 14TB HDD) - 2508TB raw disk capacity
- (#ESZ6) -ESS GH22 Solution Specify (15.36TB SSD & 4TB HDD) - 1401TB raw disk capacity
- (#ESZ7) -ESS GH22 Solution Specify (15.36TB SSD & 8TB HDD) - 2065TB raw disk capacity
- (#ESZ8) -ESS GH22 Solution Specify (15.36TB SSD & 10TB HDD) - 2397TB raw disk capacity
- (#ESZ9) -ESS GH22 Solution Specify (15.36TB SSD & 14TB HDD) - 3061TB raw disk capacity
- (#ESZA) -ESS GH14 Solution Specify (3.84TB SSD & 14TB HDD) - 4768TB raw disk capacity
- (#ESZB) -ESS GH14 Solution Specify (15.36TB SSD & 14TB HDD) - 5045TB raw disk capacity
- (#ESZC) -ESS GH24 Solution Specify (3.84TB SSD & 14TB HDD) - 4860TB raw disk capacity
- (#ESZD) -ESS GH24 Solution Specify (15.36TB SSD & 14TB HDD) - 5413TB raw disk capacity
- (#ESZE) -ESS GL1S Solution Specify (14TB HDD) - 1148TB raw disk capacity
- (#ESZF) -ESS GL2S Solution Specify (14TB HDD) - 2324TB raw disk capacity
- (#ESZG) -ESS GL4S Solution Specify (14TB HDD) - 4676TB raw disk capacity
- (#ESZH) -ESS GL5S Solution Specify (4TB HDD) - 1672TB raw disk capacity
- (#ESZJ) -ESS GL5S Solution Specify (8TB HDD) - 3344TB raw disk capacity
- (#ESZK) -ESS GL5S Solution Specify (10TB HDD) - 4180TB raw disk capacity
- (#ESZL) -ESS GL5S Solution Specify (14TB HDD) - 5852TB raw disk capacity
- (#ESZM) -ESS GL6S Solution Specify (14TB HDD) - 7028TB raw disk capacity
- (#ESZN) -ESS GL1C Solution Specify (14TB HDD) - 1456TB raw disk capacity
- (#ESZP) -ESS GL2C Solution Specify (14TB HDD) - 2940TB raw disk capacity
- (#ESZQ) -ESS GL4C Solution Specify (14TB HDD) - 5908TB raw disk capacity
- (#ESZR) -ESS GL6C Solution Specify (14TB HDD) - 8876TB raw disk capacity
- (#ESZS) -ESS GL4C with copper SAS Cables Solution Specify (14TB HDD) - 5908TB raw disk capacity
- (#ESZT) -ESS GL8C Solution Specify (10TB HDD) - 8860TB raw disk capacity
- (#ESZU) -ESS GL8C Solution Specify (14TB HDD) - 11,844TB raw disk capacity
- (#ESZV) -ESS GL5C Solution Specify (10TB HDD) - 5,280TB raw disk capacity
- (#ESZW) -ESS GL5C Solution Specify (14TB HDD) - 7,392TB raw disk capacity
- (#FSRS) -FlashSystem Rack Solution Specify (Storage only)
- (#RTSM) -Route to Storage Manufacturing Indicator (Storage only)

- Power
  - (#EPTT) -High Function 36xRF 203P-M, 6xC13 PDU 3-Phase Monitoring
- Rack Related
  - (#ECR3) -Water Cooling Manifold - Top Input/output for Rack
  - (#ECR4) -Water Cooling Manifold - Bottom Input/output for Rack
  - (#ECRS) -FlashSystem Rack Front Door
- Services
  - (#ERF1) -RFID Tags for Servers, Compute Nodes, Chassis, Racks, and HMCs
- Specify Codes
  - (#0303) -RACK SPECIFY FC 5802
  - (#0323) -Rack Content Specify: 5887-2U
  - (#0324) - Rack Content Specify: 7042-CR6/CR7/CR8/CR9 - 1EIA
  - (#0393) -Rack Content Specify: 9910/E35/E36 - 3U
  - (#0394) -Rack Content Specify: 9910-E35/E36 FC 6651 Battery Module - 3 EIA
  - (#0401) -Rack Content Specify: 9910/E66/E67 - 4U
  - (#0402) -Rack Content Specify: 9910-E66/E67 FC 6652 Battery Module -3EIA
  - (#0469) -Customer Specified Rack Placement
  - (#4651) -Rack Indicator, Rack #1
  - (#4652) -Rack Indicator, Rack #2
  - (#4653) -Rack Indicator, Rack #3
  - (#4654) -Rack Indicator, Rack #4
  - (#4655) -Rack Indicator, Rack #5
  - (#4656) -Rack Indicator, Rack #6
  - (#4657) -Rack Indicator, Rack #7
  - (#4658) -Rack Indicator, Rack #8
  - (#4659) -Rack Indicator, Rack #9
  - (#4660) -Rack Indicator, Rack #10
  - (#4661) -Rack Indicator, Rack #11
  - (#4662) -Rack Indicator, Rack #12
  - (#4663) -Rack Indicator, Rack #13
  - (#4664) -Rack Indicator, Rack #14
  - (#4665) -Rack Indicator, Rack #15

- (#4666) -Rack Indicator, Rack #16

- (#9169) -Order Routing Indicator-System Plant
- (#9459) -PDU/PWR and Power Cord Redundancy Assurance
- (#ELG1) -Intelligent Edge System Indicator
- (#ELG3) -Bayesian Optimization Accelerator Solution Indicator
- (#ER00) -Custom Soln Center Services per PRPQ 8A2064
- (#ER06) -Rack Content Specify: 2498-B24 - 1U
- (#ER08) -Rack Content Specify: 1455-24E/7120-24E
- (#ER09) -Rack Content Specify: 1455-48E - 1U
- (#ER0A) -Rack Content Specify: 1455-64C - 1U
- (#ER0E) -Rack Content Specify: 7316-TF4 -- 1 EIA
- (#ER0K) -Rack Content Specify 7316-TF5 - 1EIA
- (#ER0M) -Rack Content Specify: 4U PCIe Gen3 I/O Drawer (EMX0/ ELMX)
- (#ER0T) -Rack Content Specify 8286-41A/42A - 4EIA
- (#ER0U) -Rack Content Specify: 8284-22A - 2EIA
- (#ER0V) -Rack Content Specify: 5148/8247-22L - 2EIA
- (#ER0W) -Rack Content Specify: 1455-24L - 1U
- (#ER0Z) -Rack Content Specify: 8247-42L - 4EIA
- (#ER10) -Rack specify for 9119/9080-MxE 7EIA
- (#ER11) -Rack Content Specify 9119/9080-MxE - 12EIA
- (#ER12) -Rack Content Specify for 9119/9080-MxE 17EIA
- (#ER13) -Rack Content Specify for 9119/9080-MxE 22EIA
- (#ER14) -Rack Content Specify 1U Horizontal PDU - 1 EIA
- (#ER15) -Rack Content Specify reserve 1U rack space for PDU
- (#ER17) -Rack Content Specify: 8408-E8E
- (#ER18) -Rack Content Specify: 5148/8247-21L - 2EIA
- (#ER19) - Rack content specify reserves adjacent rack space for #EMX0/ELMX I/O Expansion Drawer - 4 EIA
- (#ER1B) -Reserve 1U at Bottom of Rack
- (#ER1C) -Rack Content Specify: 7120-64F - 1U
- (#ER1D) -Rack Content Specify for 8831-NF2 1EIA
- (#ER1H) -Rack Content Specify for 8831-F36 1EIA
- (#ER1L) -Rack Content Specify: 8408-44E
- (#ER1T) -Reserve 1U at Top of Rack
- (#ER1V) -Rack Content Specify 8831-S52 1EIA
- (#ER26) -Rack Content Specify 8867-FM1/FM2 1EIA
- (#ER2B) -Reserve 2U at Bottom of Rack
- (#ER2L) -Rack Content Specify for 8831-00M 1EIA
- (#ER2R) -Rack Content Specify 8831-S48 1EIA
- (#ER2T) -Reserve 2U at Top of Rack
- (#ER2V) -Rack Content Specify: 9009-22A - 2EIA
- (#ER2W) -Rack Content Specify: 9008-22L - 2EIA
- (#ER2X) -Rack Content Specify: 9009-41A - 4EIA
- (#ER2Y) -Rack Content Specify: 9009-42A - 4EIA
- (#ER30) -Rack Content Specify: 8284-21A - 2EIA
- (#ER31) -Rack Content Specify 8828-GU6 - EIA
- (#ER33) -Rack Content Specify: 9009-22G/9223-22S - 2EIA
- (#ER34) -Rack Content Specify: 9009-41G - 4EIA
- (#ER35) -Rack Content Specify: 9009-42G/9223-42S - 4EIA
- (#ER36) -Rack Content Specify for 8828-E36 1EIA
- (#ER37) -Rack Content Specify 8828-G36 1EIA
- (#ER38) -Rack Content Specify 8828-ER6 1EIA
- (#ER40) -Rack Content Specify for 9080-M9S -7EIA
- (#ER41) -Rack Content Specify for 9080-M9S -12EIA
- (#ER42) -Rack Content Specify for 9080-M9S -17EIA
- (#ER43) -Rack Content Specify for 9080-M9S -22EIA
- (#ERC0) -Rack Content Specify EXP12SX #ESLL/#ELLL 2-EIA/2U
- (#ERC1) -Rack Content Specify EXP24SX #ESLS/#ELLS 2-EIA/2U
- (#ERC2) -Rack Content Specify 7063-CR1 1EIA
- (#ERC5) -Rack Content Specify for 8335-GTG 2EIA
- (#ERC6) -Rack Content Specify for 8335-GTH 2EIA
- (#ERC8) -Rack Content Specify for 8335-GTX 2EIA
- (#ERC9) -Rack Content Specify: 5105-22E - 2 EIA
- (#ERCA) -Rack Content Specify: 8831-25M - 1 EIA
- (#ERCC) -ESS Specify
- (#ERCH) -Rack Content Specify: 8960-F24 - 1EIA (Storage only)
- (#ERCJ) -Rack Content Specify: 8977-T32 - 1EIA (Storage only)
- (#ERCK) -Rack Content Specify: 9848-A9F - 5EIA (Storage only)
- (#ERCL) -Rack Content Specify: 9848-AFF - 2EIA (Storage only)
- (#ERCM) -Rack Content Specify: 9848-AG8 - 2EIA (Storage only)
- (#ERCZ) -Rack Content Specify 9040-MR9 -4EIA

- (#ERLR) -Left/Right PDU Redundancy

Special Features - Plant and/or Field Installable

- Administrative
  - (#B0UW) -SP WAMO 3Y 24x7 SD
  - (#ESC0) -S&H - No Charge
- Linecords
  - (#6095) -Power Cord for PDU to External I/O Device
  - (#6489) -4.3m (14-Ft) 3PH/32A 380-415V Power Cord
  - (#6491) -4.3m (14-Ft) 1PH/63A 200-240V Power Cord
  - (#6492) -4.3m (14-Ft) 1PH/48-60A 200-240V Power Cord
  - (#6653) -4.3m (14-Ft) 3PH/16A 380-415V Power Cord
  - (#6654) -4.3m (14-Ft) 1PH/24-30A Power Cord
  - (#6655) -4.3m (14-Ft) 1PH/24-30A WR Power Cord
  - (#6656) -4.3m (14-Ft)1PH/32A Power Cord
  - (#6657) -4.3m (14-Ft) 1PH/32A Power Cord
  - (#6658) -4.3m (14-Ft) 1PH/24A Power Cord-Korea
  - (#6665) -Power Cord 2.8m (9.2-ft), Drawer to IBM PDU, (250V/10A)
  - (#6667) -4.3m (14-Ft) 3PH/32A 380-415V Power Cord-Australia
  - (#ECJ5) - 4.3m (14-Ft) PDU to Wall 3PH/24A 200-240V Delta-wired Power Cord
  - (#ECJ7) - 4.3m (14-Ft) PDU to Wall 3PH/48A 200-240V Delta-wired Power Cord
  - (#ELC0) -PDU Access Cord 0.38m
- Miscellaneous
  - (#0004) -EMEA Bulk MES Indicator
  - (#1140) -Custom Service Specify, Rochester Minn, USA
  - (#ECSF) -Custom Service Specify, Montpellier, France
  - (#ECSJ) -NeuCloud Indicator/Specify
  - (#ECSM) -Custom Service Specify, Mexico
  - (#ECSP) -Custom Service Specify, Poughkeepsie, USA
- Power
  - (#7188) -Power Distribution Unit
  - (#ECJJ) - High Function 9xC19 Single-Phase or Three-Phase Wye PDU plus
  - (#ECJL) - High Function 9xC19 PDU plus 3-Phase Delta
  - (#ECJN) - High Function 12xC13 Single-Phase or Three-Phase Wye PDU plus
  - (#ECJQ) - High Function 12xC13 PDU plus 3-Phase Delta
  - (#EPTJ) -High Function 9xC19 PDU: Switched, Monitoring
  - (#EPTL) -High Function 9xC19 PDU 3-Phase: Switched, Monitoring
  - (#EPTN) -High Function 12xC13 PDU: Switched, Monitoring
  - (#EPTQ) -High Function 12xC13 PDU 3-Phase: Switched, Monitoring
- Rack Related
  - (#7118) -Environmental Monitoring Probe
  - (#EB3Z) -Lift tool based on GenieLift GL-8 (standard)
  - (#ECR1) -Side/Side Attachment Kit for Rack (Black)
  - (#ECR2) -Rear Door Heat Exchanger Indicator for Rack
  - (#ECRA) -Rack Acoustic Front Door (IBM)
  - (#ECRB) -Rack Acoustic Rear Door (IBM)
  - (#ECRC) -Rack Acoustic Front Door (OEM)
  - (#ECRD) -Rack Acoustic Rear Door (OEM)
  - (#ECRE) -OEM Rack Front Door (Black)
  - (#ECRF) -Rack Front Door High-End appearance
  - (#ECRG) -Rack Rear Door Black
  - (#ECRH) -Optional Side Cover High-End Appearance for Rack
  - (#ECRJ) -Rack Side Cover
  - (#ECRK) -Rack Rear Extension 5-In
  - (#ECRM) -Rack Front Door for Rack (Black/Flat)
  - (#ECRP) -Airflow Management Kit for Rack
  - (#ECRR) -Ruggedized Rack Kit
  - (#EPTH) -Horizontal PDU Mounting Hardware
- Services
  - (#0010) -One CSC Billing Unit
  - (#0011) -Ten CSC Billing Units

Feature availability matrix

The following feature availability matrix for MT 7965 uses the letter "A" to indicate features that are available and orderable on the specified models. "S" indicates a feature that is supported on the new model during a model conversion; these features will work on the new model, but additional quantities of these features cannot be ordered on the new model; they can only be removed. "N" indicates that the feature is not supported on the new model and must be removed during the model conversion. As additional features are announced, supported, or withdrawn, this list will be updated. Please check with your Marketing Representative for additional information.

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|S| A = AVAILABLE  S = SUPPORTED
|4| N = NOT SUPPORTED, MUST BE REMOVED
|2|
| |
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FEAT/PN		DESCRIPTION
0004	A	EMEA Bulk MES Indicator
0010	A	One CSC Billing Unit
0011	A	Ten CSC Billing Units
0303	A	RACK SPECIFY FC 5802
0323	S	Rack Content Specify: 5887-2U
0324	A	Rack Content Specify: 7042-CR6/CR7/CR8/CR9 - 1EIA
0393	A	Rack Content Specify: 9910/E35/E36 - 3U
0394	A	Rack Content Specify: 9910-E35/E36 FC 6651 Battery Module - 3 EIA
0401	A	Rack Content Specify: 9910/E66/E67 - 4U
0402	A	Rack Content Specify: 9910-E66/E67 FC 6652 Battery Module -3EIA
0469	A	Customer Specified Rack Placement
1140	A	Custom Service Specify, Rochester Minn, USA
4651	A	Rack Indicator, Rack #1
4652	A	Rack Indicator, Rack #2
4653	A	Rack Indicator, Rack #3
4654	A	Rack Indicator, Rack #4
4655	A	Rack Indicator, Rack #5
4656	A	Rack Indicator, Rack #6
4657	A	Rack Indicator, Rack #7
4658	A	Rack Indicator, Rack #8
4659	A	Rack Indicator, Rack #9
4660	A	Rack Indicator, Rack #10
4661	A	Rack Indicator, Rack #11
4662	A	Rack Indicator, Rack #12
4663	A	Rack Indicator, Rack #13
4664	A	Rack Indicator, Rack #14
4665	A	Rack Indicator, Rack #15
4666	A	Rack Indicator, Rack #16
6095	A	Power Cord for PDU to External I/O Device
6489	A	4.3m (14-Ft) 3PH/32A 380-415V Power Cord
6491	A	4.3m (14-Ft) 1PH/63A 200-240V Power Cord
6492	A	4.3m (14-Ft) 1PH/48-60A 200-240V Power Cord
6653	A	4.3m (14-Ft) 3PH/16A 380-415V Power Cord
6654	A	4.3m (14-Ft) 1PH/24-30A Power Cord
6655	A	4.3m (14-Ft) 1PH/24-30A WR Power Cord
6656	A	4.3m (14-Ft) 1PH/32A Power Cord
6657	A	4.3m (14-Ft) 1PH/32A Power Cord
6658	A	4.3m (14-Ft) 1PH/24A Power Cord-Korea
6665	A	Power Cord 2.8m (9.2-ft), Drawer to IBM PDU, (250V/10A)
6667	A	4.3m (14-Ft) 3PH/32A 380-415V Power Cord-Australia
7118	A	Environmental Monitoring Probe
7188	A	Power Distribution Unit
9002	A	Field Integration Indicator, Ship Empty Rack
9169	A	Order Routing Indicator- System Plant
9459	A	PDU/PWR and Power Cord Redundancy Assurance
9461	A	Month Indicator
9462	A	Day Indicator
9463	A	Hour Indicator
9464	A	Minute Indicator
B0UW	A	SP WAMO 3Y 24x7 SD
EB3Z	A	Lift tool based on GenieLift GL-8 (standard)
ECJ5	A	4.3m (14-Ft) PDU to Wall 3PH/24A 200-240V Delta-wired Power Cord
ECJ7	A	4.3m (14-Ft) PDU to Wall 3PH/48A 200-240V Delta-wired Power Cord
ECJJ	A	High Function 9xC19 Single-Phase or Three-Phase Wye PDU plus
ECJL	A	High Function 9xC19 PDU plus 3-Phase Delta
ECJN	A	High Function 12xC13 Single-Phase or Three-Phase Wye PDU plus
ECJQ	A	High Function 12xC13 PDU plus 3-Phase Delta
ECL0	S	Power ACP solution specify
ECP0	S	Cloud Private Solution
ECR1	A	Side/Side Attachment Kit for Rack (Black)
ECR2	A	Rear Door Heat Exchanger Indicator for Rack
ECR3	A	Water Cooling Manifold - Top Input/output for Rack
ECR4	A	Water Cooling Manifold - Bottom Input/output for Rack
ECRA	A	Rack Acoustic Front Door (IBM)
ECRB	A	Rack Acoustic Rear Door (IBM)
ECRC	S	Rack Acoustic Front Door (OEM)
ECRD	S	Rack Acoustic Rear Door (OEM)
ECRE	A	OEM Rack Front Door (Black)
ECRF	A	Rack Front Door High-End appearance
ECRG	A	Rack Rear Door Black
ECRH	A	Optional Side Cover High-End Appearance for Rack
ECRJ	A	Rack Side Cover
ECRK	A	Rack Rear Extension 5-In
ECRM	A	Rack Front Door for Rack (Black/Flat)
ECRP	A	Airflow Management Kit for Rack
ECRR	A	Ruggedized Rack Kit
ECRS	A	FlashSystem Rack Front Door
ECSF	A	Custom Service Specify, Montpellier, France
ECSJ	S	NeuCloud Indicator/Specify

ECSM	A	Custom Service Specify, Mexico
ECSP	A	Custom Service Specify, Poughkeepsie, USA
EDC0	A	ORNL Config Specify - Compute Rack
EDCL	A	LLNL Config Specify - Compute Rack
EDCS	A	ORNL/LLNL Config Specify - Infrastructure Racks
EGLA	S	ESS GL3S Solution Specify (4TB HDD) - 1000TB raw disk capacity
EGLB	S	ESS GL3S Solution Specify (8TB HDD) - 2000TB raw disk capacity
EGLC	S	ESS GL3S Solution Specify (10TB HDD) - 2500TB raw disk capacity
EGLD	S	ESS GL3S Solution Specify (14TB HDD) - 3500TB raw disk capacity
EGLE	S	ESS GL3C Solution Specify (10TB HDD) - 3160TB raw disk capacity
EGLF	S	ESS GL3C Solution Specify (14TB HDD) - 4424TB raw disk capacity
ELC0	A	PDU Access Cord 0.38m
ELG1	A	Intelligent Edge System Indicator
ELG3	A	Bayesian Optimization Accelerator Solution Indicator
EPTH	A	Horizontal PDU Mounting Hardware
EPTJ	S	High Function 9xC19 PDU: Switched, Monitoring
EPTL	S	High Function 9xC19 PDU 3-Phase: Switched, Monitoring
EPTN	S	High Function 12xC13 PDU: Switched, Monitoring
EPTQ	S	High Function 12xC13 PDU 3-Phase: Switched, Monitoring
EPTT	A	High Function 36xRF 203P-M, 6xC13 PDU 3-Phase Monitoring
ER00	A	Custom Soln Center Services per PRPQ 8A2064
ER06	A	Rack Content Specify: 2498-B24 - 1U
ER08	A	Rack Content Specify: 1455-24E/7120-24E
ER09	A	Rack Content Specify: 1455-48E - 1U
ER0A	A	Rack Content Specify: 1455-64C - 1U
ER0E	A	Rack Content Specify: 7316-TF4 -- 1 EIA
ER0K	A	Rack Content Specify: 7316-TF5 - 1EIA
ER0M	A	Rack Content Specify: 4U PCIe Gen3 I/O Drawer (EMX0/ELMX)
ER0T	A	Rack Content Specify: 8286-41A/42A - 4EIA
ER0U	A	Rack Content Specify: 8284-22A - 2EIA
ER0V	S	Rack Content Specify: 5148/8247-22L - 2EIA
ER0W	A	Rack Content Specify: 1455-24L - 1U
ER0Z	A	Rack Content Specify: 8247-42L - 4EIA
ER10	A	Rack specify for 9119/9080-MxE 7EIA
ER11	A	Rack Content Specify 9119/9080-MxE - 12EIA
ER12	A	Rack Content Specify for 9119/9080-MxE 17EIA
ER13	A	Rack Content Specify for 9119/9080-MxE 22EIA
ER14	A	Rack Content Specify 1U Horizontal PDU - 1 EIA
ER15	A	Rack Content Specify reserve 1U rack space for PDU
ER17	A	Rack Content Specify: 8408-E8E
ER18	S	Rack Content Specify: 5148/8247-21L - 2EIA
ER19	A	Rack content specify reserves adjacent rack space for #EMX0/ELMX I/O Expansion Drawer - 4 EIA
ER1B	A	Reserve 1U at Bottom of Rack
ER1C	A	Rack Content Specify: 7120-64F - 1U
ER1D	A	Rack Content Specify for 8831-NF2 1EIA
ER1H	A	Rack Content Specify for 8831-F36 1EIA
ER1L	A	Rack Content Specify: 8408-44E
ER1T	A	Reserve 1U at Top of Rack
ER1V	A	Rack Content Specify 8831-S52 1EIA
ER26	A	Rack Content Specify 8867-FM1/FM2 1EIA
ER2B	A	Reserve 2U at Bottom of Rack
ER2L	A	Rack Content Specify for 8831-00M 1EIA
ER2R	A	Rack Content Specify 8831-S48 1EIA
ER2T	A	Reserve 2U at Top of Rack
ER2V	A	Rack Content Specify: 9009-22A - 2EIA
ER2W	A	Rack Content Specify: 9008-22L - 2EIA
ER2X	A	Rack Content Specify: 9009-41A - 4EIA
ER2Y	A	Rack Content Specify: 9009-42A - 4EIA
ER30	A	Rack Content Specify: 8284-21A - 2EIA
ER31	A	Rack Content Specify 8828-GU6 1EIA
ER33	A	Rack Content Specify: 9009-22G/9223-22S - 2EIA
ER34	A	Rack Content Specify: 9009-41G - 4EIA
ER35	A	Rack Content Specify: 9009-42G/9223-42S - 4EIA
ER36	A	Rack Content Specify for 8828-E36 1EIA
ER37	A	Rack Content Specify 8828-G36 1EIA
ER38	A	Rack Content Specify 8828-ER6 1EIA
ER40	A	Rack Content Specify for 9080-M9S -7EIA
ER41	A	Rack Content Specify for 9080-M9S -12EIA
ER42	A	Rack Content Specify for 9080-M9S -17EIA
ER43	A	Rack Content Specify for 9080-M9S -22EIA
ERC0	A	Rack Content Specify EXP12SX #ESLL/#ELLL 2-EIA/2U
ERC1	A	Rack Content Specify EXP24SX #ESLS/#ELLS 2-EIA/2U
ERC2	A	Rack Content Specify 7063-CR1 1EIA
ERC5	A	Rack Content Specify for 8335-GTG 2EIA
ERC6	A	Rack Content Specify for 8335-GTH 2EIA
ERC8	A	Rack Content Specify for 8335-GTX 2EIA
ERC9	A	Rack Content Specify: 5105-22E - 2 EIA
ERCA	A	Rack Content Specify: 8831-25M - 1EIA
ERCC	A	ESS Specify
ERCH	A	Rack Content Specify: 8960-F24 - 1EIA (Storage only)
ERCJ	A	Rack Content Specify: 8977-T32 - 1EIA (Storage only)
ERCK	A	Rack Content Specify: 9848-A9F - 5EIA (Storage only)
ERCL	A	Rack Content Specify: 9848-AFF - 2EIA (Storage only)
ERCM	A	Rack Content Specify: 9848-AG8 - 2EIA (Storage only)

ERCZ	A	Rack Content Specify 9040-MR9 -4EIA
ERF1	A	RFID Tags for Servers, Compute Nodes, Chassis, Racks, and HMCs
ERLR	A	Left/Right PDU Redundancy
ESC0	A	S&H - No Charge
ESC1	A	Rack S&H-a
ESCF	A	ESS SC1 Solution Specify
ESCG	A	ESS SC2 Solution Specify
ESCH	A	ESS SC3 Solution Specify
ESCJ	A	ESS SC4 Solution Specify
ESCK	A	ESS SC5 Solution Specify
ESCL	A	ESS SC6 Solution Specify
ESCM	A	ESS SC7 Solution Specify
ESCN	A	ESS SC8 Solution Specify
ESL1	A	ESS SL1 Solution Specify
ESL2	A	ESS SL2 Solution Specify
ESL3	A	ESS SL3 Solution Specify
ESL4	A	ESS SL4 Solution Specify
ESL5	A	ESS SL5 Solution Specify
ESL6	A	ESS SL6 Solution Specify
ESS0	A	ESS Solution Specify
ESS1	S	ESS GL2S Solution Specify (4TB HDD)
ESS2	S	ESS GL2S Solution Specify (8TB HDD)
ESS3	S	ESS GL2S Solution Specify (10TB HDD)
ESS4	S	ESS GL4S Solution Specify (4TB HDD)
ESS5	S	ESS GL4S Solution Specify (8TB HDD)
ESS6	S	ESS GL4S Solution Specify (10TB HDD)
ESS7	S	ESS GL6S Solution Specify (4TB HDD)
ESS8	S	ESS GL6S Solution Specify (8TB HDD)
ESS9	S	ESS GL6S Solution Specify (10TB HDD)
ESSD	S	ESS GS1S Solution Specify (3.84TB SSD) - 92TB raw disk capacity
ESSE	S	ESS GS1S Solution Specify (15.36TB SSD) - 368TB raw disk capacity
ESSF	S	ESS GS2S Solution Specify (3.84TB SSD) - 184TB raw disk capacity
ESSG	S	ESS GS2S Solution Specify (15.36TB SSD) - 737TB raw disk capacity
ESSK	S	ESS GS4S Solution Specify (3.84TB SSD) - 368TB raw disk capacity
ESSL	S	ESS GS4S Solution Specify (15.36TB SSD) - 1474TB raw disk capacity)
EST1	S	ESS GH12 Solution Specify (3.84TB SSD & 4TB HDD) - 756TB raw disk capacity
EST2	S	ESS GH12 Solution Specify (3.84TB SSD & 8TB HDD) - 1420TB raw disk capacity
EST3	S	ESS GH12 Solution Specify (3.84TB SSD & 10TB HDD) - 1752TB raw disk capacity
EST4	S	ESS GH12 Solution Specify (15.36TB SSD & 4TB HDD) - 1033TB raw disk capacity
EST5	S	ESS GH12 Solution Specify (15.36TB SSD & 8TB HDD) - 1697TB raw disk capacity
EST6	S	ESS GH12 Solution Specify (15.36TB SSD & 10TB HDD) - 2029TB raw disk capacity
ESTA	S	ESS GL1S solution specify (4 TB HDD) - 328 TB raw disk capacity
ESTB	S	ESS GL1S solution specify (8 TB HDD) - 656 TB raw disk capacity
ESTC	S	ESS GL1S solution specify (10 TB HDD) - 820 TB raw disk capacity
ESTE	S	ESS GH14 solution specify (3.84TB SSD & 4TB HDD) - 1428TB raw disk capacity
ESTF	S	ESS GH14 solution specify (3.84TB SSD & 4TB HDD) - 2764TB raw disk capacity
ESTG	S	ESS GH14 solution specify (3.84TB SSD & 4TB HDD) - 3436TB raw disk capacity
ESTH	S	ESS GH14 solution specify (15.36TB SSD & 4TB HDD) - 1704TB raw disk capacity
ESTJ	S	ESS GH14 solution specify (15.36TB SSD & 8TB HDD) - 3040TB raw disk capacity
ESTK	S	ESS GH14 solution specify (15.36TB SSD & 10TB HDD) - 3708TB raw disk capacity
ESTL	S	ESS GH24 solution specify (3.84TB SSD & 4TB HDD) - 1520TB raw disk capacity
ESTM	S	ESS GH24 solution specify (3.84TB SSD & 8TB HDD) - 2856TB raw disk capacity
ESTN	S	ESS GH24 solution specify (3.84TB SSD & 10TB HDD) - 3524TB raw disk capacity
ESTP	S	ESS GH24 solution specify (15.36TB SSD & 4TB HDD) - 2073TB raw disk capacity
ESTQ	S	ESS GH24 solution specify (15.36TB SSD & 8TB HDD) - 3409TB TB raw disk capacity
ESTR	S	ESS GH24 solution specify (15.36TB SSD & 10TB HDD) - 4070TB TB raw disk capacity
ESTS	S	ESS GL1C Solution Specify (10TB HDD) - 1040TB raw disk capacity
ESTT	S	ESS GL2C Solution Specify (10TB HDD) - 2100TB raw disk capacity
ESTU	S	ESS GL4C Solution Specify (10TB HDD) - 4220TB raw disk capacity
ESTW	S	ESS GL6C Solution Specify (10TB HDD) - 6340TB raw disk capacity
ESTX	S	ESS GL4C with copper SAS Cables Solution Specify (10TB HDD) - 4220TB raw disk capacity
ESZ0	S	ESS GH12 Solution Specify (3.84TB SSD & 14TB HDD) - 2416TB raw disk capacity

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ESZ1    |S| ESS GH12 Solution Specify (15.36TB SSD & 14TB HDD) -
        | |2693TB raw disk capacity
ESZ2    |S| ESS GH22 Solution Specify (3.84TB SSD & 4TB HDD) - 848TB
        | |raw disk capacity
ESZ3    |S| ESS GH22 Solution Specify (3.84TB SSD & 8TB HDD) - 1512TB
        | |raw disk capacity
ESZ4    |S| ESS GH22 Solution Specify (3.84TB SSD & 10TB HDD) - 1844TB
        | |raw disk capacity
ESZ5    |S| ESS GH22 Solution Specify (3.84TB SSD & 14TB HDD) - 2508TB
        | |raw disk capacity
ESZ6    |S| ESS GH22 Solution Specify (15.36TB SSD & 4TB HDD) - 1401TB
        | |raw disk capacity
ESZ7    |S| ESS GH22 Solution Specify (15.36TB SSD & 8TB HDD) - 2065TB
        | |raw disk capacity
ESZ8    |S| ESS GH22 Solution Specify (15.36TB SSD & 10TB HDD) -
        | |2397TB raw disk capacity
ESZ9    |S| ESS GH22 Solution Specify (15.36TB SSD & 14TB HDD) -
        | |3061TB raw disk capacity
ESZA    |S| ESS GH14 Solution Specify (3.84TB SSD & 14TB HDD) - 4768TB
        | |raw disk capacity
ESZB    |S| ESS GH14 Solution Specify (15.36TB SSD & 14TB HDD) -
        | |5045TB raw disk capacity
ESZC    |S| ESS GH24 Solution Specify (3.84TB SSD & 14TB HDD) - 4860TB
        | |raw disk capacity
ESZD    |S| ESS GH24 Solution Specify (15.36TB SSD & 14TB HDD) -
        | |5413TB raw disk capacity
ESZE    |S| ESS GL1S Solution Specify (14TB HDD) - 1148TB raw disk
        | |capacity
ESZF    |S| ESS GL2S Solution Specify (14TB HDD) - 2324TB raw disk
        | |capacity
ESZG    |S| ESS GL4S Solution Specify (14TB HDD) - 4676TB raw disk
        | |capacity
ESZH    |S| ESS GL5S Solution Specify (4TB HDD) - 1672TB raw disk
        | |capacity
ESZJ    |S| ESS GL5S Solution Specify (8TB HDD) - 3344TB raw disk
        | |capacity
ESZK    |S| ESS GL5S Solution Specify (10TB HDD) - 4180TB raw disk
        | |capacity
ESZL    |S| ESS GL5S Solution Specify (14TB HDD) - 5852TB raw disk
        | |capacity
ESZM    |S| ESS GL6S Solution Specify (14TB HDD) - 7028TB raw disk
        | |capacity
ESZN    |S| ESS GL1C Solution Specify (14TB HDD) - 1456TB raw disk
        | |capacity
ESZP    |S| ESS GL2C Solution Specify (14TB HDD) - 2940TB raw disk
        | |capacity
ESZQ    |S| ESS GL4C Solution Specify (14TB HDD) - 5908TB raw disk
        | |capacity
ESZR    |S| ESS GL6C Solution Specify (14TB HDD) - 8876TB raw disk
        | |capacity
ESZS    |S| ESS GL4C with copper SAS Cables Solution Specify (14TB
        | |HDD) - 5908TB raw disk capacity
ESZT    |S| ESS GL8C Solution Specify (10TB HDD) - 8860TB raw disk
        | |capacity
ESZU    |S| ESS GL8C Solution Specify (14TB HDD) - 11,844TB raw disk
        | |capacity
ESZV    |S| ESS GL5C Solution Specify (10TB HDD) - 5,280TB raw disk
        | |capacity
ESZW    |A| ESS GL5C Solution Specify (14TB HDD) - 7,392TB raw disk
        | |capacity
FSRS    |A| FlashSystem Rack Solution Specify (Storage only)
RTSM    |A| Route to Storage Manufacturing Indicator (Storage only)
```

Feature descriptions

Note: Not all of the following features are available in all countries. Check with your country representative for specific feature availability.
The following is a list of all feature codes in numeric order for the IBM Power Systems 7965 machine type.

Attributes, as defined in the following feature descriptions, state the interaction of requirements among features.

Minimums and maximums are the absolute limits for a single feature without regard to interaction with other features. The maximum valid quantity for MES orders may be different than for initial orders. The maximums listed below refer to the largest quantity of these two possibilities.

The order type defines if a feature is orderable only on initial orders, only on MES orders, on both initial and MES orders, or if a feature is supported on a model due to a model conversion. Supported features cannot be ordered on the converted model, only left on or removed from the converted model.

(#0004) - EMEA Bulk MES Indicator

NON-AAP BULK ORDER INDICATOR

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 0)
- OS level required: None
- Initial Order/MES/Both/Supported: MES
- CSU: Yes
- Return parts MES: No

(#0010) - One CSC Billing Unit

One Billing Unit used by the Customer Solution Center.

- Attributes provided: One CSC Billing Unit
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#0011) - Ten CSC Billing Units

Ten Billing Units used by the Customer Solutions Center.

- Attributes provided: Ten CSC Billing Units
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#0303) - RACK SPECIFY FC 5802

Allocate 4EA space in the rack for #5802

- Attributes provided: Specify 4 EIA Space
- Attributes required: Available 4EIA space in racks 7014-B42, 7014-S25, 7014-T00, 7014-T42, or 7965-S42.
- Minimum required: 0
- Maximum allowed: 10 (Initial order maximum: 10)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#0323) - Rack Content Specify

(No longer available as of December 31, 2020)

5887-2U

Indicator of rack space utilization

- Attributes provided: Indicator of rack space utilization
- Attributes required: none
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#0324) - Rack Content Specify: 7042-CR6/CR7/CR8/CR9 - 1EIA

Rack Content Specify Code for 7042-CR6/CR7/CR8/CR9 to indicate 1EIA rack space utilization.

- Attributes provided: Rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 42 (Initial order maximum: 42)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#0393) - Rack Content Specify

9910/E35/E36 - 3U

- Attributes provided: Indicator of rack space utilization
- Attributes required: 3U of rack space
- Minimum required: 0
- Maximum allowed: 14 (Initial order maximum: 14)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#0394) - Rack Content Specify

9910-E35/E36 FC 6651 Battery Module - 3 EIA

- Minimum required: 0
- Maximum allowed: 14 (Initial order maximum: 14)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#0401) - Rack Content Specify

9910/E66/E67 - 4U

- Minimum required: 0
- Maximum allowed: 10 (Initial order maximum: 10)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#0402) - Rack Content Specify

9910-E66/E67 FC 6652 Battery Module -3EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: Rack space
- Minimum required: 0
- Maximum allowed: 14 (Initial order maximum: 14)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#0469) - Customer Specified Rack Placement

Provides the customer the ability to specify the physical location of the system drawers and attached expansion drawers in the rack. The customer's input is collected and verified via the marketing configurator. The Clients request will be reviewed for safe handling by checking weight distribution within the rack. Final approval for the requested drawer placement location will be provided by the Manufacturing Plant. This information is then used by IBM Manufacturing to assemble the system components (drawers) in the rack according to the Clients request.

The CFReport from the marketing configurator must be submitted to www.ibm.com/servers/eserver/power/csp (US Business Partners and Distributors can bypass this step.)

If #0469 is not on the initial rack order, component placement within the rack will be determined by IBM.

- Attributes provided: Location of the system components (drawers) within a rack according to the Clients documented request.
- Attributes required: System components and Rack on the same initial order.
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#1140) - Custom Service Specify, Rochester Minn, USA

Having #1140 on the order, will cause the order to be routed to Rochester and the machine to be internally routed to the CSC build area in building 114 (Rochester).

- Attributes provided: Customization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#4651) - Rack Indicator, Rack #1

When added to an initial rack order, this indicator is used to specify the first rack for a multi rack order, or the only rack for a single rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #1.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack Integration/ Rack Specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4652) - Rack Indicator, Rack #2

When added to an initial rack order, this indicator is used to specify the second rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #2 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack Integration/Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4653) - Rack Indicator, Rack #3

When added to an initial rack order, this indicator is used to specify the third rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #3 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4654) - Rack Indicator, Rack #4

When added to an initial rack order, this indicator is used to specify the fourth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #4 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4655) - Rack Indicator, Rack #5

When added to an initial rack order, this indicator is used to specify the fifth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #5 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4656) - Rack Indicator, Rack #6

When added to an initial rack order, this indicator is used to specify the sixth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #6 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4657) - Rack Indicator, Rack #7

When added to an initial rack order, this indicator is used to specify the seventh rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #7 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4658) - Rack Indicator, Rack #8

When added to an initial rack order, this indicator is used to specify the eighth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #8 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4659) - Rack Indicator, Rack #9

When added to an initial rack order, this indicator is used to specify the ninth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #9 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4660) - Rack Indicator, Rack #10

When added to an initial rack order, this indicator is used to specify the tenth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #10 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4661) - Rack Indicator, Rack #11

When added to an initial rack order, this indicator is used to specify the eleventh rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #11 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4662) - Rack Indicator, Rack #12

When added to an initial rack order, this indicator is used to specify the twelfth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #12 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4663) - Rack Indicator, Rack #13

When added to an initial rack order, this indicator is used to specify the thirteenth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #13 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4664) - Rack Indicator, Rack #14

When added to an initial rack order, this indicator is used to specify the fourteenth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #14 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4665) - Rack Indicator, Rack #15

When added to an initial rack order, this indicator is used to specify the fifteenth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #15 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#4666) - Rack Indicator, Rack #16

When added to an initial rack order, this indicator is used to specify the sixteenth rack for a multi rack order.

When added to an initial rack mountable device order, this indicator is used to specify that the rack mountable device (such as a system or I/O drawer) is to be mounted in rack #16 of a multi rack order.
Note: For 19" rack mountable device orders: One feature code from the group 4650 to 4666 must be listed on the order. More than one feature code from this group is not allowed.

For 19" rack orders: If IBM Mfg. is to assemble a rack mountable device into the rack, one feature code selection from the group 4651 to 4666 must be listed on the order. More than one feature code selection from this group is not allowed. The quantity of this selected feature code on the 19" rack order must equal the number of rack mountable devices to be installed in the rack by IBM Mfg.

- Attributes provided: Rack specify
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#6095) - Power Cord for PDU to External I/O Device

This feature provides one rack side panel, which can be used on either the left side or the right side of the rack. A typical rack will require a quantity of two side panels, unless the Rack Suite Attachment feature is ordered. Rack side panels can be quickly installed or removed from the outside the rack, with no tools required.

- Attributes provided: Power Cord
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6489) - 4.3m (14-Ft) 3PH/32A 380-415V Power Cord

#6489 is a 14-FT/4.3m 3PH/32A power cable with a Type 46 plug which distributes power from a power source to a Power Distribution Unit.

- Attributes provided: power cord
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6491) - 4.3m (14-Ft) 1PH/63A 200-240V Power Cord

#6491 is a 14-FT/4.3m 200-240V/63A power cord with a Type 46 plug which distributes power from a power source to a Power Distribution Unit.

- Attributes provided: power cord
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6492) - 4.3m (14-Ft) 1PH/60A (48A derated) 200-240V Power Cord

Feature #6492 is a 14-FT/4.3m 200-240V/48-60A power cord with a Type 46 plug which distributes power from a power source to a Power Distribution Unit.

- Attributes provided: Power Cord PDU to wall
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6653) - 4.3m (14-Ft) 3PH/16A 380-415V Power Cord

#6653 is a 14-FT/4.3m 3PH/16A power cord with a Type 46 plug which distributes power from a power source to a Power Distribution Unit.

- Attributes provided: power cord
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6654) - 4.3m (14-Ft) 1PH/30A (24A derated) Power Cord

Feature #6654 is a 14-FT/4.3m 200-240V/24A-30A locking power cord with a Type 12 plug which distributes power from a power source to a Power Distribution Unit.

- Attributes provided: Power Cord
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6655) - 4.3m (14-Ft) 1PH/30A (24A derated) WR Power Cord

Feature #6655 is a 14-FT/4.3m 200-240V/24A-30A water-resistant power cord with a Type 40 plug which distributes power from a power source to a Power Distribution Unit.

- Attributes provided: Power Cord
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6656) - 4.3m (14-Ft)1PH/32A Power Cord

#6656 is a 14-FT/4.3m 200-240V/32A power cord with a Type 46 plug which distributes power from a power source to a Power Distribution Unit.

- Attributes provided: power cord
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6657) - 4.3m (14-Ft) 1PH/32A Power Cord-Australia

This power cord provides power to a #5889, #7188 #9188, #7109, #EPTG, #EPTM, #EPTJ, #ECJM, #ECJG, #ECJJ, #ECJN, or #EPTN power distribution unit. It connects to a wall power outlet with a PDL plug.

- Attributes provided: Power connection for a PDU
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6658) - 4.3m (14-Ft) 1PH/30A (24A derated) Power Cord-Korea

This power cord provides power to a #5889, #7188, #9188, #7109, #EPTG, #EPTM, #EPTJ, #ECJM, #ECJG, #ECJJ, #ECJN, or #EPTN power distribution unit. It connects to a wall power outlet with a Korean plug.

- Attributes provided: Power connection for a PDU
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6665) - Power Cord 2.8m (9.2-ft), Drawer to IBM PDU, (250V/10A)

Standard IBM rack power jumper cord that goes from the system or I/O drawer to the rack power distribution unit (PDU). Cable has C13 on one end (for C14 power supply connector on system unit or I/O drawer) and C20 on the other end (for IBM PDU C19 receptacle).
Note: For power jumper cord which attach to PDUs with C13 receptacles, use features such as #6577, #6458, #6671, or #6672.

- Attributes provided: Power jumper cord.
- Attributes required: None.
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#6667) - 4.3m (14-Ft) 3PH/32A 380-415V Power Cord-Australia

#6667 is a 14-FT/4.3m 380-45V/32A power cord with a Type PDL plug which distributes power from a power source to a Power Distribution Unit.

- Attributes provided: PDU power cable
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#7118) - Environmental Monitoring Probe

The Environmental Monitoring Probe (EMP) enables you to remotely monitor environmental conditions. Using a standard Web browser, you can view the ambient temperature and humidity of the remote environment, as well as the status of two additional contact devices, such as a smoke detector or open-door sensor. The temperature/humidity probe plugs into a RJ45 connector an a PDU+. The EMP can be used with any Powerware UPS equipped with a 10/100 Mb ConnectUPS Web/SNMP Card (firmware 3.01 or higher). The EMP can be located up to 20m (65.6 feet) away.

- Attributes provided: Monitoring of temperature, humidity, and status of two contacts/ sensors. A one meter cat5 Ethernet cable, double sided hook and loop fabric, often called VELCRO(R) tape, two tie-wraps, and screw with wall anchor for mounting.
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 8 (Initial order maximum: 8)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#7188) - Power Distribution Unit

An AC Power Distribution Unit (PDU) which mounts in a 19" rack and provides twelve C13 power outlets. The #7188 has six 16A circuit breakers, with two power outlets per circuit breaker. System units and/or expansion units must use a power cord with a C14 plug to connect to the #7188.

One of the following line cords must be used to distribute power from a wall outlet to the #7188;

- #6489 - 14-Ft 3PH/32A Power Cord
- #6491 - 14-Ft 1PH/63A Power Cord
- #6492 - 14-Ft 1PH/48-60A Power Cord
- #6653 - 14-Ft 3PH/16A Power Cord
- #6654 - 14-Ft 1PH/24-30A Power Cord
- #6655 - 14-Ft 1PH/24-30A WR Power Cord
- #6656 - 14-Ft 1PH/32A Power Cord
- #6657 - 14-Ft 1PH/24A Power Cord
- #6658 - 14-Ft 1PH/24A Power Cord-Korea
- Attributes provided: Power Distribution Unit with Twelve C13 power outlets.
- Attributes required: none
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#9002) - Field Integration Indicator, Ship Empty Rack

This feature on an order identifies that IBM Mfg. must ship the rack without installing any rack mount drawers. Exactly one feature selection from the set 9002 and 4651 through 4666 must be included on all initial rack orders. Feature 9002, when placed on an order will not affect the assembly of hardware items ordered as rack feature codes. When #9002 is included on the rack order, rack content specify codes should be included for any systems that will be installed in the rack after it leaves the factory.

- Attributes provided: Initial Rack order shipped without rack mount drawers.
- Attributes required: Machine Type Rack order
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#9169) - Order Routing Indicator- System Plant

This feature will be auto-selected by the Configurator Tool when required. Use of this feature will affect the routing of the order. Selection of this indicator will direct the order to a system plant for fulfillment.

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#9459) - PDU/PWR and Power Cord Redundancy Assurance

Feature 9459 facilitates matching up paired PDU, power supplies and line cords for rack level redundancy. Including #9459 enables the correct PDU, power supplies, and line cord pairing for the configuration process and prevents manufacturing interruptions for improper quantities.

- Attributes provided: Redundant PDU, power supplies and line cords within the Rack.
- Attributes required: Rack
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#9461) - Month Indicator

This month indicator is used to create a date stamp to enable CFR splitting and rejoining in order to circumvent the AAS maximum limitation of 30 systems entered on any one order. The quantity ordered for this feature is generated by eConfig.

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 12 (Initial order maximum: 12)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#9462) - Day Indicator

This day indicator is used to create a date stamp to enable CFR splitting and rejoining in order to circumvent the AAS maximum limitation of 30 systems entered on any one order. The quantity ordered for this feature is generated by eConfig.

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 31 (Initial order maximum: 31)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#9463) - Hour Indicator

This hour indicator is used to create a time stamp to enable CFR splitting and rejoining in order to circumvent the AAS maximum limitation of 30 systems entered on any one order. The quantity ordered for this feature is generated by eConfig.

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 24 (Initial order maximum: 24)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#9464) - Minute Indicator

This hour indicator is used to create a time stamp to enable CFR splitting and rejoining in order to circumvent the AAS maximum limitation of 30 systems entered on any one order. The quantity ordered for this feature is generated by eConfig.

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 60 (Initial order maximum: 60)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#B0UW) - SP WAMO 3Y 24x7 SD

ServicePac Warranty and Maintenance Option 3 YR 24x7 Same Day ORT 6hrCL/4hrPD

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#EB3Z) - Lift tool based on GenieLift GL-8 (standard)

This feature delivers the Low-Cost Lift Tool (based on GenieLift GL-8 (standard)) for IBM servers.

Feature #EB3Z is a feature that is available on multiple server types (POWER S812L, S822L, S824L, S814, S824, S812, S822, E850C, E850, E880C, E870C, E880, and E870, also the rack models 7965-S42, 7014-T00, and 7014-T42). Failure to have at least one Lift tool available in a location may result in delayed or prolonged maintenance times.

A lift tool raises and lowers servers and I/O drawers so they can be placed into or removed from standard 19-inch racks. It allows heavier equipment to be handled more safely by fewer people. Lift tool feature EB3Z has a hand crank to lift and position up to 181 kg (400 lbs). The lift tool feature EB3Z operating length and width are 88.3 cm x 62.9 cm (34 3/4 x 24 3/4 in). It has rollers which allow it to be moved to different racks in the data center.

- Attributes provided: Lift Tool
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECJ5) - 4.3m (14-Ft) PDU to Wall 3PH/24A 200-240V Delta-wired Power Cord

This power cord feature ECJ5 contains an Amphenol type of connector and only supported on PDUs ECJK or ECJL, and ECJP or ECJQ.

ECJ5 has a 4-pin IEC 60309 style plug, 430P9W. It contains three line conductors and a protective earth, but no neutral. ECJ5 is supported in countries that use a delta electrical distribution. ECJ5 is not supported in China, Hong Kong, and other countries that use a wye electrical distribution.

- Attributes provided: Power cord
- Attributes required: PDU features ECJK or ECJL, and ECJP or ECJQ.
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECJ7) - 4.3m (14-Ft) PDU to Wall 3PH/48A 200-240V Delta-wired Power Cord

This power cord feature ECJ7 contains an Amphenol type of connector and only supported on PDUs ECJK or ECJL, and ECJP or ECJQ.

ECJ7 has a 4-pin IEC 60309 style plug, 460P9W. It contains three line conductors and a protective earth, but no neutral. ECJ7 is supported in countries that use a delta electrical distribution. ECJ7 is not supported in China, Hong Kong, and other countries that use a wye electrical distribution.

- Attributes provided: Power cord
- Attributes required: PDU features ECJK or ECJL, and ECJP or ECJQ.
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECJJ) - High Function 9xC19 Single-Phase or Three-Phase Wye PDU plus

This is an intelligent, switched 200-240 volt single-phase or 380-415/220-240 volt three-phase wye AC Power Distribution Unit (PDU) plus with nine C19 receptacles on the front of the PDU. The PDU is mounted on the rear of the rack making the nine C19 receptacles easily accessible. Each receptacle has a 20 amp circuit breaker. Depending on country wiring standards the PDU is single-phase or three-phase wye. Three-phase wye-wired connectors have 5-pins and use three line conductors, a neutral, and a protective earth. The input is 380-415 volt line-to-line and the output is 220-240 volt line-to-neutral for three-phase wye PDUs.

See three-phase #ECJK/ECJL for countries which do not use wye wiring.

The PDU can be mounted vertically in rack side pockets or it can be mounted horizontally. If mounted horizontally, it uses 1 EIA (1U) of rack space. See feature #EPTH for horizontal mounting hardware.

Device power cords with a C20 plug connect to C19 PDU receptacles and are ordered separately. One country-specific wall line cord is also ordered separately and attaches to a UTG524-7 connector on the front of the PDU. Supported line cords include features #6489, #6491, #6492, #6653, #6654, #6655, #6656, #6657, #6658, and #6667.

Two RJ45 ports on the front of the PDU enable the client to monitor each receptacle's electrical power usage and to remotely switch any receptacle on or off. The PDU is shipped with a generic PDU password and IBM strongly urges clients to change it upon installation.

There are also three C13 receptacles on the rear of the PDU positioned toward the middle of the rack. These are generally not easily accessed and therefore IBM does not generally recommend their use.

#ECJG and #ECJJ are identical PDUs. Up to one lower price #ECJG can be ordered with a new 7014-T42/T00 rack in place of a no-charge #9188 PDU.

For comparison, this is most similar to the earlier generation #EPTJ PDU.

- Limitation: Some configurations of the Elastic Storage Server (ESS) are delivered with an Intelligent PDU. At this time, the intelligent management capabilities of this PDU are not configured or used by the ESS system. If the ESS Customer would like to use this capability, it is the Customers responsibility to configure this PDU. In any case the ethernet port on the Intelligent PDU must not be connected to the ESS Management switch.
- Attributes provided: Nine C19 PDU plus - switched, power monitoring
- Attributes required: PDU wall line cord and space in 19-inch rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECJL) - High Function 9xC19 PDU plus 3-Phase Delta

This is an intelligent, switched 200-240 volt 3-phase delta AC Power Distribution Unit (PDU) plus with nine C19 receptacles on the front of the PDU. The PDU is mounted on the rear of the rack making the nine C19 receptacles easily accessible. Each receptacle has a 20 amp circuit breaker. Three-phase delta-wired connectors have 4-pins and use three line conductors and a protective earth. The input is 200-240 volt line-to-line and the output is 200-240 volt line-to-line for three-phase delta PDUs.

The PDU can be mounted vertically in rack side pockets or it can be mounted horizontally. If mounted horizontally, it uses 1 EIA (1U) of rack space. See feature #EPTH for horizontal mounting hardware.

Device power cords with a C20 plug connect to C19 PDU receptacles and are ordered separately. One wall line cord is also ordered separately and attaches to the Amphenol inlet connector. Supported line cords include features #ECJ5 and #ECJ7.

Two RJ45 ports on the front of the PDU enable the client to monitor each receptacle's electrical power usage and to remotely switch any receptacle on or off. The PDU is shipped with a generic PDU password and IBM strongly urges clients to change it upon installation.

There are also three C13 receptacles on the rear of the PDU positioned toward the middle of the rack. These are generally not easily accessed and therefore IBM does not generally recommend their use.

#ECJK and #ECJL are identical PDUs. Up to one lower price #ECJK can be ordered with a new 7014-T42/T00 rack in place of a no-charge #9188 PDU.

For comparison, this is most similar to the earlier generation #EPTL PDU.

Not supported in China, Hong Kong, and other countries that use a wye electrical distribution.

- Limitation: Some configurations of the Elastic Storage Server (ESS) are delivered with an Intelligent PDU. At this time, the intelligent management capabilities of this PDU are not configured or used by the ESS system. If the ESS Customer would like to use this capability, it is the Customers responsibility to configure this PDU. In any case the ethernet port on the Intelligent PDU must not be connected to the ESS Management switch.
- Attributes provided: Nine C19 PDU plus - switched, power monitoring
- Attributes required: space in rack, 3-phase 208V AC delta electrical service
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECJN) - High Function 12xC13 Single-Phase or Three-Phase Wye PDU plus

This is an intelligent, switched 200-240 volt single-phase or 380-415/220-240 volt three-phase wye AC Power Distribution Unit (PDU) plus with twelve C13 receptacles on the front of the PDU. The PDU is mounted on the rear of the rack making the twelve C13 receptacles easily accessible. Each receptacle has a 20 amp circuit breaker. Depending on country wiring standards the PDU is single-phase or three-phase wye. Three-phase wye-wired connectors have 5-pins and use three line conductors, a neutral, and a protective earth. The input is 380-415 volt line-to-line and the output is 220-240 volt line-to- neutral for three-phase wye PDUs.

See three-phase #ECJP/ECJQ for countries which do not use wye wiring.

The PDU can be mounted vertically in rack side pockets or it can be mounted horizontally. If mounted horizontally, it uses 1 EIA (1U) of rack space. See feature #EPTH for horizontal mounting hardware.

Device power cords with a C14 plug connect to C13 PDU receptacles and are ordered separately. One country-specific wall line cord is also ordered separately and attaches to a UTG524-7 connector on the front of the PDU. Supported line cords include features #6489, #6491, #6492, #6653, #6654, #6655, #6656, #6657, #6658, and #6667.

Two RJ45 ports on the front of the PDU enable the client to monitor each receptacle's electrical power usage and to remotely switch any receptacle on or off. The PDU is shipped with a generic PDU password and IBM strongly urges clients to change it upon installation.

Feature #ECJM and #ECJN are identical PDUs. Up to one lower price #ECJM can be ordered with a new 7014-T42/T00 rack in place of a no- charge #9188 PDU.

For comparison, this is most similar to the earlier generation #EPTN PDU.

- Limitation: Some configurations of the Elastic Storage Server (ESS) are delivered with an Intelligent PDU. At this time, the intelligent management capabilities of this PDU are not configured or used by the ESS system. If the ESS Customer would like to use this capability, it is the Customers responsibility to configure this PDU. In any case the ethernet port on the Intelligent PDU must not be connected to the ESS Management switch.
- Attributes provided: Twelve C13 PDU plus - switched, power monitoring
- Attributes required: PDU wall line cord and space in 19-inch rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECJQ) - High Function 12xC13 PDU plus 3-Phase Delta

This is an intelligent, switched 200-240 volt 3-phase delta AC Power Distribution Unit (PDU) plus with twelve C13 receptacles on the front of the PDU. The PDU is mounted on the rear of the rack making the twelve C13 receptacles easily accessible. Each receptacle has a 20 amp circuit breaker. Three-phase delta-wired connectors have 4-pins and use three line conductors and a protective earth. The input is 200-240 volt line-to-line and the output is 200-240 volt line-to-line for three-phase delta PDUs.

The PDU can be mounted vertically in rack side pockets or it can be mounted horizontally. If mounted horizontally, it uses 1 EIA (1U) of rack space. See feature #EPTH for horizontal mounting hardware.

Device power cords with a C20 plug connect to C19 PDU receptacles and are ordered separately. One wall line cord is also ordered separately and attaches to the Amphenol inlet connector. Supported line cords include features #ECJ5 and #ECJ7.

Two RJ45 ports on the front of the PDU enable the client to monitor each receptacle's electrical power usage and to remotely switch any receptacle on or off. The PDU is shipped with a generic PDU password and IBM strongly urges clients to change it upon installation.

#ECJP and #ECJQ are identical PDUs. Up to one lower price #ECJP can be ordered with a new 7014-T42/T00 rack in place of a no-charge #9188 PDU.

For comparison, this is most similar to the earlier generation #EPTP PDU.

Not supported in China, Hong Kong, and other countries that use a wye electrical distribution.

- Limitation: Some configurations of the Elastic Storage Server (ESS) are delivered with an Intelligent PDU. At this time, the intelligent management capabilities of this PDU are not configured or used by the ESS system. If the ESS Customer would like to use this capability, it is the Customers responsibility to configure this PDU. In any case the ethernet port on the Intelligent PDU must not be connected to the ESS Management switch.
- Attributes provided: Twelve C13 PDU plus - switched, power monitoring
- Attributes required: space in rack, 3-phase 208V AC delta electrical service
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECL0) - Power ACP Solution specify

(No longer available as of December 31, 2020)

This is an indicator for Power Accelerated Computing Platform.

- Attributes provided: Solution Indicator
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ECP0) - Cloud Private Solution

(No longer available as of December 31, 2020)

This feature indicates that it is a Cloud Private Solution.

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#ECR1) - Side/Side Attachment Kit for Rack (Black)

- Attributes provided: Hardware and trim to attach two racks
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECR2) - Rear Door Heat Exchanger Indicator for Rack

- Attributes provided: See Note below
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No
  - When this feature is ordered for 7965-S42 indicates that a rear door heat exchanger (1164-95X) will be ordered for the 7965-S42 rack.
  - Feature ECR2 and ECRG are mutually exclusive.

(#ECR3) - Water Cooling Manifold - Top Input/output for Rack

Feature ECR3 provides the manifold with water input and output at the top of the rack. Since the hose exits through the top of the rack, the top 2U space must be left open.

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply
  - If feature ECR3 is selected, then FC ER2T is required.

(#ECR4) - Water Cooling Manifold - Bottom Input/output for Rack

Feature ECR4 provides the manifold with water input and output at the bottom of the rack. Since the hose exits through bottom of the rack, 2U space must be left open on the bottom.

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ECRA) - Rack Acoustic Front Door (IBM)

This feature provides Rack Acoustic front door (IBM). The door latch has lock with key.

- Attributes provided: Acoustic door
- Attributes required: 7965-S42 with one or more servers.
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No
  Note: Features #ECRM, #ECRF, #ECRE, #ECRA and #ECRC are mutually exclusive.

(#ECRB) - Rack Acoustic Rear Door (IBM)

This feature provides IBM Rack Acoustic Rear Door. The door latch has lock with key.

- Attributes provided: Rack Acoustic Rear Door
- Attributes required: 7965-S42 with one or more servers
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No
  Note: Features #ECRG, #ECRB, #ECRD and #ECR2 are mutually exclusive.

(#ECRC) - Rack Acoustic Front Door (OEM)

(No longer available as of December 31, 2020)

This feature provides Rack Acoustic front door (OEM). The door latch has lock with key.

- Attributes provided: Acoustic door
- Attributes required: 7965-S42 with one or more servers
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No
  Note: Features #ECRM, #ECRF, #ECRE, #ECRA and #ECRC are mutually exclusive.

(#ECRD) - Rack Acoustic Rear Door (OEM)

(No longer available as of December 31, 2020)

This feature provides Rack Acoustic rear door (OEM). The door latch has lock with key.

- Attributes provided: Acoustic door
- Attributes required: 7965-S42 with one or more servers
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No
  Note: Features #ECRG, #ECRB, #ECRD and #ECR2 are mutually exclusive.

(#ECRE) - OEM Rack Front Door (Black)

This feature provides an attractive black front door without an IBM logo for the S42 rack. A front door such as feature #ECRE or #ECRF is required on the S42 rack. IBM ships rack with the handle on the right and hinges on the left viewed facing the front of the rack.

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECRF) - Rack Front Door High-End appearance

This feature provides a front door in High-End appearance with an IBM logo for the S42 rack. A front door such as #ECRF is required on the S42 rack. IBM ships rack with the handle on the right and hinges on the left viewed facing the front of the rack.

The door comes with a lock which is keyed the same as the rear door. Uniquely keyed locks can be obtained by the client directly from Southco, the vendor from whom IBM purchased the lock.

- Attributes provided: Front Door with lock
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECRG) - Rack Rear Door Black

This feature provides a rear door in flat black color for the S42 rack.

The door is the full width of the rack and the hinges and lockplate can be moved from side to side allowing the door to be opened on the left or on the right. IBM ships rack with the handle on the right and hinges on the left viewed facing the rear of the rack.

Limitation: If the ruggedized feature #ECRR is installed the door must be hinged on the left with the handle on the right.

The front and rear doors come with a lock which is keyed the same as the front door. Uniquely keyed locks can be obtained by the client directly from Southco, the vendor from whom IBM purchased the lock.

- Attributes provided: Rear Door with lock
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No
  Note: Feature ECR2 and ECRG are mutually exclusive.

(#ECRH) - Optional Side Cover High-End Appearance for Rack

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECRJ) - Rack Side Cover

This feature provides two side panels in black color for the S42 rack. Each side panel can cover either the left or the right side of the rack. These side covers are optional but recommended for optimal airflow through a rack and for physical security.

Each side panel is secured by four screws that are accessible from the top of the rack and four screws that are accessible from inside of the rack.

- Attributes provided: Left and Right side panels for S42 rack.
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECRK) - Rack Rear Extension 5-In

This feature is an optional rear rack extender that can be used for 7965-S42 racks. This extender is installed on the rear of the rack 7965-S42 and provides 130mm (5 in.) of extra space to hold cables on the side of the rack and to keep the center area clear for cooling and service access. Two extenders can be stacked to provide 260mm (10 in.) of additional rear cabling space. The extender has hook-and- loop fasteners to secure cables.

- Attributes provided: Rack Rear Extension
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECRM) - Rack Front Door for Rack (Black/Flat)

This feature provides a front door in flat black color with an IBM logo for the S42 rack.

The front and rear doors come with a lock which is keyed the same as the front door. Uniquely keyed locks can be obtained by the client directly from Southco, the vendor from whom IBM purchased the lock.

- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECRP) - Airflow Management Kit for Rack

- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECRR) - Ruggedized Rack Kit

For enhanced rigidity and stability of the 7965-S42 rack, the optional Ruggedized Rack Feature ECRR provides additional hardware that reinforces the S42 rack and anchors it to the floor. This hardware is designed primarily for use in locations where earthquakes are a concern. The feature includes two large steel braces or trusses that bolts into the rear & front of the rack. It is hinged on the left side so it can swing out of the way for easy access to the rack drawers when necessary. The Ruggedized Rack Feature also includes hardware for bolting the rack to a concrete floor or a similar surface, and bolt-in steel filler panels for any unoccupied spaces in the rack.

Limitations:

- In a zone 4 earthquake environment the rack is limited to a maximum load of 20.4 kg (45 lbs)/EIA
- The rack conforms to the zone 4 earthquake requirements of Ericsson's GR-63-CORE with the rack loaded up to 20.4 kg (45 lbs)/EIA. In a zone 4 earthquake environment the rack should be configured starting with the heavier drawers at the bottom of the rack.
- Currently only the front doors #ECRE and #ECRM, rear door #ECRG and side covers #ECRH and #ECRJ are supported in a zone 4 earthquake environment.
- Attributes provided: Rear and Front brace, bolt down hardware, bolt in front filler panels
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECRS) - FlashSystem Rack Front Door

This feature provides a front door for the S42 rack.

- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: N/A
- Return parts MES: No

(#ECSF) - Custom Service Specify, Montpellier, France

Having #ECSF on the order, will cause the order to be routed to France and the machine to be internally routed to the CSC build area.

- Attributes provided: Customization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: N/A
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECSJ) - NeuCloud Indicator/Specify

(No longer available as of May 12, 2020)

This is a no-charge specify code for helping IBM track orders for reporting purposes

- Attributes provided: none
- Attributes required: used in mainland China
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: N/A
- Return parts MES: Does not apply

(#ECSM) - Custom Service Specify, Mexico

Having #ECSM on the order, will cause the order to be routed to Mexico and the machine to be internally routed to the CSC build area.

- Attributes provided: Customization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ECSP) - Custom Service Specify, Poughkeepsie, USA

Having #ECSP on the order, will cause the order to be routed to Poughkeepsie, USA and the machine to be internally routed to the CSC build area.

- Attributes provided: Customization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#EDC0) - ORNL Config Specify - Compute Rack

This indicator tells IBM Manufacturing to use special rules to configure the Oakridge National Labs (ORNL) Compute rack.

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply
  - Features EDCL, EDC0 and EDCS are mutually exclusive.
  - Sum of EDCL, EDC0 and EDCS must 0 or 1.
  - Feature EPTT requires EDCL or EDC0 on the order.

(#EDCL) - LLNL Config Specify - Compute Rack

This indicator tells IBM Manufacturing to use special rules to configure the Lawrence Livermore National Labs (LLNL) Compute rack.

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply
  - Features EDCL, EDC0 and EDCS are mutually exclusive.
  - Sum of EDCL, EDC0 and EDCS must 0 or 1.
  - Feature EPTT requires EDCL or EDC0 on the order.

(#EDCS) - ORNL/LLNL Config Specify - Infrastructure Racks

This indicator tells IBM Manufacturing to use special rules to configure the Oakridge National Labs (ORNL)/Lawrence Livermore National Labs (LLNL) Infrastructure racks.

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply
  - Features EDCL, EDC0 and EDCS are mutually exclusive.
  - Sum of EDCL, EDC0 and EDCS must 0 or 1.
  - Feature EPTT requires EDCL or EDC0 on the order.

(#EGLA) - ESS GL3S Solution Specify (4TB HDD) - 1000TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL3S Solution Specify (4TB HDD) - 1000TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#EGLB) - ESS GL3S Solution Specify (8TB HDD) - 2000TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL3S Solution Specify (8TB HDD) - 2000TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#EGLC) - ESS GL3S Solution Specify (10TB HDD) - 2500TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL3S Solution Specify (10TB HDD) - 2500TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#EGLD) - ESS GL3S Solution Specify (14TB HDD) - 3500TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL3S Solution Specify (14TB HDD) - 3500TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#EGLE) - ESS GL3C Solution Specify (10TB HDD) - 3160TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL3C Solution Specify (10TB HDD) - 3160TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#EGLF) - ESS GL3C Solution Specify (14TB HDD) - 4424TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL3C Solution Specify (14TB HDD) - 4424TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#ELC0) - PDU Access Cord 0.38m

This 0.38 meter (14 inch) cord is used with a vertically mounted PDU (Power Distribution Unit) such as a #EPTJ, #EPTN, #7188 or #7109 when the PDU is located in a 7965-S42, 7965-94Y, or #ER05 Slim Rack. One end of this power cord connects to the PDU. The other end of this cord connects to the power cord running to the wall outlet or electrical power source.

One PDU Access Cord is required per vertically mounted PDU. Without a PDU Access Cord, inserting and removing the wall outlet power cord into the PDU can be very difficult in the narrow side pockets of the Slim Rack. A PDU Access Cord is not required for PDUs in wider racks such as the 7014-T42 or #0553.

- Attributes provided: Power cord
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#ELG1) - Intelligent Edge System Indicator

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#ELG3) - Bayesian Optimization Accelerator Solution Indicator

Bayesian Optimization Accelerator Solution Indicator

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#EPTH) - Horizontal PDU Mounting Hardware

This feature ships the hardware required to properly horizontally mount one #EPTG/EPTJ, #EPTK/EPTL, #EPTM/EPTN or #EPTP/EPTQ PDU in a 1U 19-inch rack. A 1U blank panel for the front of the rack for air-flow control is included.

Without this hardware, the PDU can be mounted vertically in the rack's side pockets, but can only be poorly mounted horizontally. The front end of the PDU will be firmly attached to the rear of the rack. But the front of the PDU will be unsupported toward the middle of the rack. Without this hardware, the unsupported end of the PDU will rest on the hardware mounted immediately below it. If that underlying hardware is removed from the rack there is no support for the PDU.

Important Note: This feature code is typically used for an MES order and not for an original order of a new rack with #EPTn PDUs. As part of factory integration, IBM Manufacturing automatically adds this hardware without a feature code and at no additional charge when its #EPTn PDU placement logic calls for horizontally mounted PDUs. Use this feature code when (1) converting an existing vertically mounted #EPTn PDU to horizontal mounting or (2) separately ordering a #EPTn PDU for horizontal field installation.

- Attributes provided: mounting hardware
- Attributes required: High Function PDU (#EPT*) and space in 19-inch rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 0)
- OS level required: None
- Initial Order/MES/Both/Supported: MES
- CSU: Yes
- Return parts MES: No

(#EPTJ) - High Function 9xC19 PDU

(No longer available as of April 24, 2020)

Switched, Monitoring

This is an intelligent, switched 200-240 volt AC Power Distribution Unit (PDU) with nine C19 receptacles on the front of the PDU. The PDU is mounted on the rear of the rack making the nine C19 receptacles easily accessible. Each receptacle has a 20 amp circuit breaker. Depending on country wiring standards the PDU is single-phase or three-phase wye. See three-phase #EPTK/EPTL for countries which do not use wye wiring.

The PDU can be mounted vertically in rack side pockets or it can be mounted horizontally. If mounted horizontally, it uses 1 EIA (1U) of rack space. See feature #EPTH for horizontal mounting hardware.

Device power cords with a C20 plug connect to C19 PDU receptacles and are ordered separately. One country-specific wall line cord is also ordered separately and attaches to a UTG524-7 connector on the front of the PDU. Supported line cords include features #6489, #6491, #6492, #6653, #6654, #6655, #6656, #6657, #6658, and #6667.

Two RJ45 ports on the front of the PDU enable the client to monitor each receptacle's electrical power usage and to remotely switch any receptacle on or off. The PDU is shipped with a generic PDU password and IBM strongly urges clients to change it upon installation.

There are also three C13 receptacles on the rear of the PDU positioned toward the middle of the rack. These are generally not easily accessed and therefore IBM does not generally recommend their use.

#EPTG and #EPTJ are identical PDUs. Up to one lower price #EPTG can be ordered with a new 7014-T42/T00 rack in place of a no-charge #9188 PDU.

For comparison, this is most similar to the earlier generation #7189 PDU

- Attributes provided: Nine C19 PDU - switched, power monitoring
- Attributes required: PDU wall line cord & space in 19-inch rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#EPTL) - High Function 9xC19 PDU 3-Phase

(No longer available as of April 24, 2020)

Switched, Monitoring

This is an intelligent, switched 208 volt 3-phase AC Power Distribution Unit (PDU) with nine C19 receptacles on the front of the PDU. The PDU is mounted on the rear of the rack making the nine C19 receptacles easily accessible. Each receptacle has a 20 amp circuit breaker.

The PDU can be mounted vertically in rack side pockets or it can be mounted horizontally. If mounted horizontally, it uses 1 EIA (1U) of rack space. See feature #EPTH for horizontal mounting hardware.

Device power cords with a C20 plug connect to C19 PDU receptacles and are ordered separately. One wall line cord is provided with the PDU (no separate feature code) and has a IEC60309 60A plug (3P+G). The PDU supports up to 48 amps.

Two RJ45 ports on the front of the PDU enable the client to monitor each receptacle's electrical power usage and to remotely switch any receptacle on or off. The PDU is shipped with a generic PDU password and IBM strongly urges clients to change it upon installation.

There are also three C13 receptacles on the rear of the PDU positioned toward the middle of the rack. These are generally not easily accessed and therefore IBM does not generally recommend their use.

#EPTK and #EPTL are identical PDUs. Up to one lower price #EPTK can be ordered with a new 7014-T42/T00 rack in place of a no-charge #9188 PDU.

For comparison, this is most similar to the earlier generation #7196 PDU.

- Attributes provided: Nine C19 PDU - switched, power monitoring
- Attributes required: space in rack, 3-phase 208V AC delta electrical service
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#EPTN) - High Function 12xC13 PDU

(No longer available as of April 24, 2020)

Switched, Monitoring

This is an intelligent, switched 200-240 volt AC Power Distribution Unit (PDU) with twelve C13 receptacles on the front of the PDU. The PDU is mounted on the rear of the rack making the twelve C13 receptacles easily accessible. Each receptacle has a 20 amp circuit breaker. Depending on country wiring standards the PDU is single-phase or three-phase wye. See three-phase #EPTK/EPTL for countries which do not use wye wiring.

The PDU can be mounted vertically in rack side pockets or it can be mounted horizontally. If mounted horizontally, it uses 1 EIA (1U) of rack space. See feature #EPTH for horizontal mounting hardware.

Device power cords with a C14 plug connect to C13 PDU receptacles and are ordered separately. One country-specific wall line cord is also ordered separately and attaches to a UTG524-7 connector on the front of the PDU. Supported line cords include features #6489, #6491, #6492, #6653, #6654, #6655, #6656, #6657, #6658, and #6667.

Two RJ45 ports on the front of the PDU enable the client to monitor each receptacle's electrical power usage and to remotely switch any receptacle on or off. The PDU is shipped with a generic PDU password and IBM strongly urges clients to change it upon installation.

#EPTM and #EPTN are identical PDUs. Up to one lower price #EPTM can be ordered with a new 7014-T42/T00 rack in place of a no-charge #9188 PDU.

For comparison, this is most similar to the earlier generation #7109 PDU

- Attributes provided: Twelve C13 PDU - switched, power monitoring
- Attributes required: PDU wall line cord & space in 19-inch rack
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#EPTQ) - High Function 12xC13 PDU 3-Phase

(No longer available as of April 24, 2020)

Switched, Monitoring

This is an intelligent, switched 208 volt 3-phase AC Power Distribution Unit (PDU) with twelve C13 receptacles on the front of the PDU. The PDU is mounted on the rear of the rack making the twelve C13 receptacles easily accessible. Each receptacle has a 20 amp circuit breaker.

The PDU can be mounted vertically in rack side pockets or it can be mounted horizontally. If mounted horizontally, it uses 1 EIA (1U) of rack space. See feature #EPTH for horizontal mounting hardware.

Device power cords with a C14 plug connect to C13 PDU receptacles and are ordered separately. One wall line cord is provided with the PDU (no separate feature code) and has a IEC60309 60A plug (3P+G). The PDU supports up to 48 amps.

Two RJ45 ports on the front of the PDU enable the client to monitor each receptacle's electrical power usage and to remotely switch any receptacle on or off. The PDU is shipped with a generic PDU password and IBM strongly urges clients to change it upon installation.

#EPTP and #EPTQ are identical PDUs. Up to one lower price #EPTP can be ordered with a new 7014-T42/T00 rack in place of a no-charge #9188 PDU.

For comparison, this is most similar to the earlier generation #7196 PDU, but offers C13 receptacles.

- Attributes provided: Twelve C13 PDU - switched, power monitoring
- Attributes required: space in rack, 3-phase 208V AC delta electrical service
- Minimum required: 0
- Maximum allowed: 9999 (Initial order maximum: 250)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: Yes
- Return parts MES: No

(#EPTT) - High Function 36xRF 203P-M, 6xC13 PDU 3-Phase Monitoring

This is an intelligent, switched 480/277 volt 3-phase AC Power Distribution Unit (PDU) with 36 Rong Feng (RF) 203P-M receptacles and six IEC 320-C13 receptacles on the PDU. The PDU is mounted in the cable management space of the rack. Each pair of RF 203P-M receptacles has a 20 amp circuit breaker derated to 16 amps and all six IEC 320-C13 receptacles are fed from a single 15 amp circuit breaker derated to 12 amps.

Device power cords with RF 203-M plugs connect to RF 203P-M PDU receptacles and are ordered separately. Device power cords with IEC 320-C14 plugs connect to IEC 320-C13 PDU receptacles and are ordered separately. One wall line cord is provided with the PDU (no separate feature code) and has a 5-wire un-terminated input. The PDU supports up to 80 amps per 277 V AC phase.

One RJ45 port in the middle of the PDU enables the client to monitor incoming electrical power usage by phase and to remotely switch on or off a pair of IEC 320-C13 receptacles. The PDU is shipped with a generic PDU password and IBM strongly urges clients to change it upon installation.

The PDU is mounted on either the left or the right side of the rack. It is tall, essentially the height of the interior of the 42U rack.

- Attributes provided: High Function 36xRF-203P-M 6xC13 PDU 3-Ph
- Attributes required: Features EDCL or EDC0.
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply
  - Feature EPTT requires EDCL or EDC0 on the order.

(#ER00) - Custom Soln Center Services per PRPQ 8A2064

Routes system to the IBM Rochester Custom Solution Center for special services. Customer is able to specify Ethernet Network and System cabling design. Customer is also able to provide input for manufacturing test. Other available services include customer ability to specify physical location of the systems, I/O drawers, IBM Ethernet Rack Switches and attached expansion drawers in the rack. Custom software and configuration of customer software per customer specification is available. The customer's input is collected and verified via i-Listed PRPQ 8A2064. Product safety rules must be met concerning weight distribution for shipping which may affect racking specification.

Final approval will be provided by the IBM Rochester Custom Solution Center via i-Listed PRPQ 8A2064.

- Attributes provided: Advanced Rack Integration consisting of customer specified location of systems, system components and network switches and network cabling.
- Attributes required: System components, systems, switches and rack on the same initial order
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER06) - Rack Content Specify

2498-B24 - 1U

Indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization.
- Attributes required: 1U of rack space
- Minimum required: 0
- Maximum allowed: 6 (Initial order maximum: 6)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER08) - Rack Content Specify

1455-24E/7120-24E

Indicator or rack space utilization

- Attributes provided: Indicator of rack space utilization.
- Attributes required: 1U of rack space
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER09) - Rack Content Specify

1455-48E - 1U

Indicator or rack space utilization

- Attributes provided: Indicator of rack space utilization.
- Attributes required: 1U of rack space
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER0A) - Rack Content Specify

1455-64C - 1U

Indicator or rack space utilization

- Attributes provided: Indicator of rack space utilization.
- Attributes required: 1U of rack space
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER0E) - Rack Content Specify

7316-TF4 -- 1 EIA

Indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization.
- Attributes required: 1U (EIA) of rack space
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER0K) - Rack Content Specify 7316-TF5 - 1EIA

Indicator of rack space utilization.

- Attributes provided: Indicator of 1 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ER0M) - Rack Content Specify

4U PCIe Gen3 I/O Drawer (EMX0/ELMX)

Indicator or rack space utilization

- Attributes provided: Indicator or rack space utilization
- Attributes required: 4U of rack space
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: No

(#ER0T) - Rack Content Specify 8286-41A/42A - 4EIA

Indicator of rack space utilization

- Attributes provided: Indicator of 4EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 10 (Initial order maximum: 10)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER0U) - Rack Content Specify

8284-22A - 2EIA

Indicator of rack space utilization

- Attributes provided: Indicator of 2EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER0V) - Rack Content Specify 5148/8247-22L - 2EIA

(No longer available as of December 20, 2020)

Indicator of rack space utilization

- Attributes provided: Indicator of 2EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER0W) - Rack Content Specify

1455-24L - 1U

Indicator or rack space utilization

- Attributes provided: Indicator of rack space utilization.
- Attributes required: 1U of rack space
- Minimum required: 0
- Maximum allowed: 42 (Initial order maximum: 42)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER0Z) - Rack Content Specify

8247-42L - 4EIA

Indicator of rack space utilization

- Attributes provided: Indicator of 2EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 10 (Initial order maximum: 10)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER10) - Rack specify for 9119/9080-MxE 7EIA

Indicator of rack space utilization.

Limitation: 9119/9080-MxE are supported in the S42 rack but only for field integration.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 6 (Initial order maximum: 6)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER11) - Rack Content Specify 9119/9080-MxE - 12EIA

This feature is an indicator of rack space utilization.

Limitation: 9119/9080-MxE are supported in the S42 rack but only for field integration.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 3 (Initial order maximum: 3)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER12) - Rack Content Specify for 9119/9080-MxE 17EIA

This feature is an indicator of rack space utilization.

Limitation: 9119/9080-MxE are supported in the S42 rack but only for field integration.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER13) - Rack Content Specify for 9119/9080-MxE 22EIA

This feature is an indicator of rack space utilization.

Limitation: 9119/9080-MxE are supported in the S42 rack but only for field integration.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER14) - Rack Content Specify 1U Horizontal PDU - 1 EIA

Indicator that reserve rack space for the 1U Horizontal PDU.

- Attributes provided: Indicator of rack space utilization.
- Attributes required: None.
- Minimum required: 0
- Maximum allowed: 10 (Initial order maximum: 10)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER15) - Rack Content Specify reserve 1U rack space for PDU

Rack content indicator for PDU - Reserve 1U rack space - 1 EIA. Supports PDU.

- Attributes provided: Indicator or rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 12 (Initial order maximum: 12)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER17) - Rack Content Specify

8408-E8E

Indicator or rack space utilization.

Limitation: 8408-E8E supported in the S42 rack but only for field integration.

- Attributes provided: Indicator or rack space utilization
- Attributes required: 4U of rack space
- Minimum required: 0
- Maximum allowed: 8 (Initial order maximum: 8)
- OS level required: N/A
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ER18) - Rack Content Specify 5148/8247-21L - 2EIA

(No longer available as of December 20, 2020)

Indicator of rack space utilization

- Attributes provided: Indicator of 2EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER19) - Rack content specify reserves adjacent rack space for #EMX0/ELMX I/O Expansion Drawer - 4 EIA

Indicator that reserves adjacent 4EIA rack space for the I/O Expansion Drawer feature #EMX0/#ELMX.

- Attributes provided: Specify 4EIA space
- Attributes required: Available 4EIA space in Rack
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply
  Note: Not to exceed quantity of #EMX0

(#ER1B) - Reserve 1U at Bottom of Rack

This feature reserves 1U at the bottom of the rack.

- Attributes provided: Indicator of rack space utilization
- Attributes required: 1U of rack space
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER1C) - Rack Content Specify

7120-64F - 1U

Indicator or rack space utilization

- Attributes provided: Indicator of rack space utilization by an IBM Rack Switch
- Attributes required: 1U of rack space
- Minimum required: 0
- Maximum allowed: 42 (Initial order maximum: 42)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER1D) - Rack Content Specify for 8831-NF2 1EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 42 (Initial order maximum: 42)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER1H) - Rack Content Specify for 8831-F36 1EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER1L) - Rack Content Specify

8408-44E

Indicator or rack space utilization.

Limitation: 8408-44E supported in the S42 rack but only for field integration.

- Attributes provided: Indicator or rack space utilization
- Attributes required: 4U of rack space
- Minimum required: 0
- Maximum allowed: 8 (Initial order maximum: 8)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER1T) - Reserve 1U at Top of Rack

This feature reserves 1U of space at the top of the rack.

- Attributes provided: Indicator of rack space utilization
- Attributes required: 1U of rack space
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER1V) - Rack Content Specify 8831-S52 1EIA

Indicator for rack space utilization.

- Attributes provided: Indicator for rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER26) - Rack Content Specify 8867-FM1/FM2 1EIA

Indicator for rack space utilization.

- Attributes provided: Indicator for rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER2B) - Reserve 2U at Bottom of Rack

Indicator of rack space utilization

- Attributes provided: Indicator of rack space utilization
- Attributes required: 2U of rack space
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER2L) - Rack Content Specify for 8831-00M 1EIA

This feature is an indicator of rack space utilization.

- Attributes required: None
- Minimum required: 0
- Maximum allowed: 40 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER2R) - Rack Content Specify 8831-S48 1EIA

Indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER2T) - Reserve 2U at Top of Rack

Indicator of rack space utilization

- Attributes provided: Indicator of rack space utilization
- Attributes required: 2U of rack space
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER2V) - Rack Content Specify

9009-22A - 2EIA

Indicator of rack space utilization

- Attributes provided: Indicator of 2EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER2W) - Rack Content Specify

9008-22L - 2EIA

Indicator of rack space utilization

- Attributes provided: Indicator of 2EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER2X) - Rack Content Specify

9009-41A - 4EIA

Indicator of rack space utilization

- Attributes provided: Indicator of 2EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 10 (Initial order maximum: 10)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER2Y) - Rack Content Specify

9009-42A - 4EIA

Indicator of rack space utilization

- Attributes provided: Indicator of 2EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 10 (Initial order maximum: 10)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER30) - Rack Content Specify

8284-21A - 2EIA

Indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization.
- Attributes required: None.
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER31) - Rack Content Specify 8828-GU6 1EIA

Indicator for rack space utilization.

- Attributes provided: Indicator for rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER33) - Rack Content Specify: 9009-22G/9223-22S - 2EIA

9009-22G - 2EIA

Indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ER34) - Rack Content Specify

9009-41G - 4EIA

Indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 10 (Initial order maximum: 10)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ER35) - Rack Content Specify: 9009-42G/9223-42S - 4EIA

9009-42G - 4EIA

Indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 10 (Initial order maximum: 10)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ER36) - Rack Content Specify for 8828-E36 1EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER37) - Rack Content Specify 8828-G36 1EIA

Indicator for rack space utilization.

- Attributes provided: Indicator for rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER38) - Rack Content Specify 8828-ER6 1EIA

Indicator for rack space utilization.

- Attributes provided: Indicator for rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER40) - Rack Content Specify for 9080-M9S -7EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 6 (Initial order maximum: 6)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER41) - Rack Content Specify for 9080-M9S -12EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 3 (Initial order maximum: 3)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER42) - Rack Content Specify for 9080-M9S -17EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ER43) - Rack Content Specify for 9080-M9S -22EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ERC0) - Rack Content Specify EXP12SX #ESLL/#ELLL 2-EIA/2U

Indicator of rack space utilization

- Attributes provided: Indicator of rack space utilization
- Attributes required: none
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: N/A
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ERC1) - Rack Content Specify EXP24SX #ESLS/#ELLS 2-EIA/2U

Indicator of rack space utilization

- Attributes provided: Indicator of rack space utilization
- Attributes required: none
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: N/A
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ERC2) - Rack Content Specify 7063-CR1 1EIA

Indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 42 (Initial order maximum: 42)
- OS level required: N/A
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ERC5) - Rack Content Specify for 8335-GTG 2EIA

Indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 18 (Initial order maximum: 18)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ERC6) - Rack Content Specify for 8335-GTH 2EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 18 (Initial order maximum: 18)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ERC8) - Rack Content Specify for 8335-GTX 2EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 18 (Initial order maximum: 18)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ERC9) - Rack Content Specify

5105-22E - 2 EIA

Indicator of rack space utilization.

- Attributes provided: Indicator of 2 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum: 21)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ERCA) - Rack Content Specify

8831-25M - 1 EIA

- Minimum required: 0
- Maximum allowed: 21 (Initial order maximum:)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#ERCC) - ESS Specify

This feature indicates this is an ESS Specify

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 18 (Initial order maximum: 18)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#ERCH) - Rack Content Specify

8960-F24 - 1EIA (Storage only)

This feature is an indicator of rack space utilization.

- Minimum required: 0
- Maximum allowed: 42 (Initial order maximum: 42)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ERCJ) - Rack Content Specify

8977-T32 - 1EIA (Storage only)

This feature is an indicator of rack space utilization.

- Minimum required: 0
- Maximum allowed: 42 (Initial order maximum: 42)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

Feature ERCJ is not orderable in the following countries: Armenia, Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, Russia, Srpska (Republic of),Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.

(#ERCK) - Rack Content Specify

9848-A9F - 5EIA (Storage only)

This feature is an indicator of rack space utilization.

- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ERCL) - Rack Content Specify

9848-AFF - 2EIA (Storage only)

This feature is an indicator of rack space utilization.

- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ERCM) - Rack Content Specify

9848-AG8 - 2EIA (Storage only)

This feature is an indicator of rack space utilization.

- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A Return parts MES: No

(#ERCZ) - Rack Content Specify 9040-MR9 -4EIA

This feature is an indicator of rack space utilization.

- Attributes provided: Indicator of rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 8 (Initial order maximum: 8)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ERF1) - RFID Tags for Servers, Compute Nodes, Chassis, Racks, and HMCs

The specify feature attaches one Radio Frequency Identification Device (RFID) tag to a Server CEC, rack, HMC, compute node, or chassis enclosure. This can be used with MTM (machine type model) rack such as a 7953-94X or 7014-T42, not a feature code rack such as a #0553. It applies to newly shipped MTM servers, racks, HMCs, compute nodes, and chassis enclosures, not MES orders with one exception. POWER5 CECs being upgraded to a POWER6 CEC or POWER6 CECs being upgraded to a POWER 7 CEC can order this feature. The RFID tag meets the Financial Services Technology Consortium (FSTC) specifications for IT Data Center Asset Tracking.

- Attributes provided: RFIDs
- Attributes required: Server CEC, Compute Node, Chassis, MTM Rack, or HMC
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ERLR) - Left/Right PDU Redundancy

This specify code provides direction to manufacturing to configure an even number of PDUs and plug the equipment in a left/ right pattern. The L/R specify will be defaulted on enterprise racks being configured. Clients can override the LR specify default.

- Attributes provided: Provides and even number of PDUs
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESC0) - S&H - No Charge

No charge shipping and handling

- Attributes provided: None
- Attributes required: Sales Preapproval Required
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Both
- CSU: N/A
- Return parts MES: Does not apply

(#ESC1) - Rack S&H-a

Shipping and handling

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESCF) - ESS SC1 Solution Specify

This feature indicates this is an ESS SC1 Solution Specify

- Attributes provided: 8 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 5 (Initial order maximum: 5)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESCG) - ESS SC2 Solution Specify

This feature indicates this is an ESS SC2 Solution Specify

- Attributes provided: 12 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 3 (Initial order maximum: 3)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESCH) - ESS SC3 Solution Specify

This feature indicates this is an ESS SC3 Solution Specify

- Attributes provided: 16 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESCJ) - ESS SC4 Solution Specify

This feature indicates this is an ESS SC4 Solution Specify

- Attributes provided: 20 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESCK) - ESS SC5 Solution Specify

This feature indicates this is an ESS SC5 Solution Specify

- Attributes provided: 24 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESCL) - ESS SC6 Solution Specify

This feature indicates this is an ESS SC6 Solution Specify

- Attributes provided: 28 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESCM) - ESS SC7 Solution Specify

This feature indicates this is an ESS SC7 Solution Specify

- Attributes provided: 32 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESCN) - ESS SC8 Solution Specify

This feature indicates this is an ESS SC8 Solution Specify

- Attributes provided: 36 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESL1) - ESS SL1 Solution Specify

This feature indicates this is an ESS SL1 Solution Specify

- Attributes provided: 9 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 4 (Initial order maximum: 4)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESL2) - ESS SL2 Solution Specify

This feature indicates this is an ESS SL2 Solution Specify

- Attributes provided: 14 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 3 (Initial order maximum: 3)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESL3) - ESS SL3 Solution Specify

This feature indicates this is an ESS SL3 Solution Specify.

- Attributes provided: 19 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 2 (Initial order maximum: 2)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESL4) - ESS SL4 Solution Specify

This feature indicates this is an ESS SL4 Solution Specify

- Attributes provided: 24 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESL5) - ESS SL5 Solution Specify

This feature indicates this is an ESS SL5 Solution Specify

- Attributes provided: 29 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESL6) - ESS SL6 Solution Specify

This feature indicates this is an ESS SL6 Solution Specify

- Attributes provided: 34 EIA rack space utilization
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#ESS0) - ESS Solution Specify

This feature indicates this is an ESS 5U84 Storage Solution Specify

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#ESS1) - ESS GL2S Solution Specify (4TB HDD)

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL2S Solution Specify (4TB HDD) 664TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES:

(#ESS2) - ESS GL2S Solution Specify (8TB HDD)

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL2S Solution Specify (8TB HDD) 1328TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESS3) - ESS GL2S Solution Specify (10TB HDD)

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL2S Solution Specify (10TB HDD) 1660TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESS4) - ESS GL4S Solution Specify (4TB HDD)

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL4S Solution Specify (4TB HDD) 1336TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESS5) - ESS GL4S Solution Specify (8TB HDD)

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL4S Solution Specify (8TB HDD) 2672TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESS6) - ESS GL4S Solution Specify (10TB HDD)

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL4S Solution Specify (10TB HDD) 3340TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESS7) - ESS GL6S Solution Specify (4TB HDD)

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL6S Solution Specify (4TB HDD) 2008TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESS8) - ESS GL6S Solution Specify (8TB HDD)

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL6S Solution Specify (8TB HDD) 4016TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESS9) - ESS GL6S Solution Specify (10TB HDD)

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL6S Solution Specify (10TB HDD) 5020TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESSD) - ESS GS1S Solution Specify (3.84TB SSD) - 92TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates ESS GS1S Solution Specify (3.84TB SSD) - 92TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESSE) - ESS GS1S Solution Specify (15.36TB SSD) - 368TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates ESS GS1S Solution Specify (15.36TB SSD) - 368TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESSF) - ESS GS2S Solution Specify (3.84TB SSD) - 184TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates ESS GS2S Solution Specify (3.84TB SSD) - 184TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESSG) - ESS GS2S Solution Specify (15.36TB SSD) - 737TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates ESS GS2S Solution Specify (15.36TB SSD) - 737TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESSK) - ESS GS4S Solution Specify (3.84TB SSD) - 368TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates ESS GS4S Solution Specify (3.84TB SSD) - 368TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESSL) - ESS GS4S Solution Specify (15.36TB SSD) - 1474TB raw disk capacity)

(No longer available as of December 20, 2020)

This feature indicates ESS GS4S Solution Specify (15.36TB SSD) - 1474TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#EST1) - ESS GH12 Solution Specify (3.84TB SSD & 4TB HDD) - 756TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH12 Solution Specify (3.84TB SSD & 4TB HDD) - 756TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#EST2) - ESS GH12 Solution Specify (3.84TB SSD & 8TB HDD) - 1420TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH12 Solution Specify (3.84TB SSD & 8TB HDD) - 1420TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#EST3) - ESS GH12 Solution Specify (3.84TB SSD & 10TB HDD) - 1752TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH12 Solution Specify (3.84TB SSD & 10TB HDD) - 1752TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#EST4) - ESS GH12 Solution Specify (15.36TB SSD & 4TB HDD) - 1033TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH12 Solution Specify (15.36TB SSD & 4TB HDD) - 1033TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#EST5) - ESS GH12 Solution Specify (15.36TB SSD & 8TB HDD) - 1697TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH12 Solution Specify (15.36TB SSD & 8TB HDD) - 1697TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#EST6) - ESS GH12 Solution Specify (15.36TB SSD & 10TB HDD) - 2029TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH12 Solution Specify (15.36TB SSD & 10TB HDD) - 2029TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTA) - ESS GL1S solution specify (4 TB HDD) - 328 TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL1S Solution Specify (4TB HDD)

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTB) - ESS GL1S solution specify (8 TB HDD) - 656 TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL1S Solution Specify (8 TB HDD)

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTC) - ESS GL1S solution specify (10 TB HDD) - 820 TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL1S Solution Specify (10 TB HDD)

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTE) - ESS GH14 solution specify (3.84TB SSD & 4TB HDD) - 1428TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH14 Solution Specify (3.84TB SSD & 4TB HDD) - 1428TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTF) - ESS GH14 solution specify (3.84TB SSD & 4TB HDD) - 2764TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH14 Solution Specify (3.84TB SSD & 4TB HDD) - 2764TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTG) - ESS GH14 solution specify (3.84TB SSD & 4TB HDD) - 3436TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH14 Solution Specify (3.84TB SSD & 4TB HDD) - 3436TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTH) - ESS GH14 solution specify (15.36TB SSD & 4TB HDD) - 1704TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH14 Solution Specify(15.36TB SSD & 4TB HDD) - 1704TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTJ) - ESS GH14 solution specify (15.36TB SSD & 8TB HDD) - 3040TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH14 Solution Specify (15.36TB SSD & 8TB HDD) - 3040TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTK) - ESS GH14 solution specify (15.36TB SSD & 10TB HDD) - 3708TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH14 Solution Specify (15.36TB SSD & 10TB HDD) - 3708TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTL) - ESS GH24 solution specify (3.84TB SSD & 4TB HDD) - 1520TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH24 Solution Specify (3.84TB SSD & 4TB HDD) - 1520TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTM) - ESS GH24 solution specify (3.84TB SSD & 8TB HDD) - 2856TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH24 Solution Specify (3.84TB SSD & 8TB HDD) - 2856TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTN) - ESS GH24 solution specify (3.84TB SSD & 10TB HDD) - 3524TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH24 Solution Specify (3.84TB SSD & 10TB HDD) - 3524TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTP) - ESS GH24 solution specify (15.36TB SSD & 4TB HDD) - 2073TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH24 Solution Specify (15.36TB SSD & 4TB HDD) - 2073TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTQ) - ESS GH24 solution specify (15.36TB SSD & 8TB HDD) - 3409TB TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH24 Solution Specify (15.36TB SSD & 8TB HDD) - 3409TB TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTR) - ESS GH24 solution specify (15.36TB SSD & 10TB HDD) - 4070TB TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH24 Solution Specify (15.36TB SSD & 10TB HDD) - 4070TB TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTS) - ESS GL1C Solution Specify (10TB HDD) - 1040TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL1C Solution Specify (10TB HDD) - 1040TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTT) - ESS GL2C Solution Specify (10TB HDD) - 2100TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL1C Solution Specify (10TB HDD) - 2100TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTU) - ESS GL4C Solution Specify (10TB HDD) - 4220TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL1C Solution Specify (10TB HDD) - 4220TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTW) - ESS GL6C Solution Specify (10TB HDD) - 6340TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL1C Solution Specify (10TB HDD) - 6340TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESTX) - ESS GL4C with copper SAS Cables Solution Specify (10TB HDD) - 4220TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL4C with copper SAS Cables Solution Specify (10TB HDD) for a raw capacity of 4,220TB. Products with this feature are required to be rack integrated from the factory, and it is not possible to unrack this model once it is installed.

- Attributes provided: None
- Attributes required: One of feature code 4651 to 4666
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required:
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESZ0) - ESS GH12 Solution Specify (3.84TB SSD & 14TB HDD) - 2416TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH12 Solution Specify (3.84TB SSD & 14TB HDD) - 2416TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZ1) - ESS GH12 Solution Specify (15.36TB SSD & 14TB HDD) - 2693TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH12 Solution Specify (15.36TB SSD & 14TB HDD) - 2693TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZ2) - ESS GH22 Solution Specify (3.84TB SSD & 4TB HDD) - 848TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH22 Solution Specify (3.84TB SSD & 4TB HDD) - 848TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZ3) - ESS GH22 Solution Specify (3.84TB SSD & 8TB HDD) - 1512TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH22 Solution Specify (3.84TB SSD & 8TB HDD) - 1512TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZ4) - ESS GH22 Solution Specify (3.84TB SSD & 10TB HDD) - 1844TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH22 Solution Specify (3.84TB SSD & 10TB HDD) - 1844TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZ5) - ESS GH22 Solution Specify (3.84TB SSD & 14TB HDD) - 2508TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH22 Solution Specify (3.84TB SSD & 14TB HDD) - 2508TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZ6) - ESS GH22 Solution Specify (15.36TB SSD & 4TB HDD) - 1401TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH22 Solution Specify (15.36TB SSD & 4TB HDD) - 1401TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZ7) - ESS GH22 Solution Specify (15.36TB SSD & 8TB HDD) - 2065TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH22 Solution Specify (15.36TB SSD & 8TB HDD) - 2065TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZ8) - ESS GH22 Solution Specify (15.36TB SSD & 10TB HDD) - 2397TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH22 Solution Specify (15.36TB SSD & 10TB HDD) - 2397TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZ9) - ESS GH22 Solution Specify (15.36TB SSD & 14TB HDD) - 3061TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH22 Solution Specify (15.36TB SSD & 14TB HDD) - 3061TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZA) - ESS GH14 Solution Specify (3.84TB SSD & 14TB HDD) - 4768TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH14 Solution Specify (3.84TB SSD & 14TB HDD) - 4768TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZB) - ESS GH14 Solution Specify (15.36TB SSD & 14TB HDD) - 5045TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH14 Solution Specify (15.36TB SSD & 14TB HDD) - 5045TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZC) - ESS GH24 Solution Specify (3.84TB SSD & 14TB HDD) - 4860TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH24 Solution Specify (3.84TB SSD & 14TB HDD) - 4860TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZD) - ESS GH24 Solution Specify (15.36TB SSD & 14TB HDD) - 5413TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GH24 Solution Specify (15.36TB SSD & 14TB HDD) - 5413TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZE) - ESS GL1S Solution Specify (14TB HDD) - 1148TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL1S Solution Specify (14TB HDD) - 1148TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZF) - ESS GL2S Solution Specify (14TB HDD) - 2324TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL2S Solution Specify (14TB HDD) - 2324TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZG) - ESS GL4S Solution Specify (14TB HDD) - 4676TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL4S Solution Specify (14TB HDD) - 4676TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZH) - ESS GL5S Solution Specify (4TB HDD) - 1672TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL5S Solution Specify (4TB HDD) - 1672TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZJ) - ESS GL5S Solution Specify (8TB HDD) - 3344TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL5S Solution Specify (8TB HDD) - 3344TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZK) - ESS GL5S Solution Specify (10TB HDD) - 4180TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL5S Solution Specify (10TB HDD) - 4180TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZL) - ESS GL5S Solution Specify (14TB HDD) - 5852TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL5S Solution Specify (14TB HDD) - 5852TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZM) - ESS GL6S Solution Specify (14TB HDD) - 7028TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL6S Solution Specify (14TB HDD) - 7028TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZN) - ESS GL1C Solution Specify (14TB HDD) - 1456TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL1C Solution Specify (14TB HDD) - 1456TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZP) - ESS GL2C Solution Specify (14TB HDD) - 2940TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL2C Solution Specify (14TB HDD) - 2940TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZQ) - ESS GL4C Solution Specify (14TB HDD) - 5908TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL4C Solution Specify (14TB HDD) - 5908TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZR) - ESS GL6C Solution Specify (14TB HDD) - 8876TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL6C Solution Specify (14TB HDD) - 8876TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZS) - ESS GL4C with copper SAS Cables Solution Specify (14TB 5908TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL4C with copper SAS CABLES Solution Specify (14TB HDD) - 5908TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZT) - ESS GL8C Solution Specify (10TB HDD) - 8860TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL8C Solution Specify (10TB HDD) - 8860TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZU) - ESS GL8C Solution Specify (14TB HDD) - 11,844TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL8C Solution Specify (14TB HDD) - 11,844TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: Yes
- Return parts MES: Does not apply

(#ESZV) - ESS GL5C Solution Specify (10TB HDD) - 5,280TB raw disk capacity

(No longer available as of December 20, 2020)

This feature indicates this is an ESS GL5C Solution Specify (10TB HDD) - 5,280TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#ESZW) - ESS GL5C Solution Specify (14TB HDD) - 7,392TB raw disk capacity

This feature indicates this is an ESS GL5C Solution Specify (14TB HDD) - 7,392TB raw disk capacity

- Attributes provided: None
- Attributes required: None
- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum:)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: Does not apply

(#FSRS) - FlashSystem Rack Solution Specify (Storage only)

This feature indicates this is a FlashSystem Rack Solution Specify.

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

(#RTSM) - Route to Storage Manufacturing Indicator (Storage only)

Having #RTSM on the order will cause the order to be routed to Storage Manufacturing.

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- OS level required: None
- Initial Order/MES/Both/Supported: Initial
- CSU: N/A
- Return parts MES: No

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Accessories

None.

Customer replacement parts

None.

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Supplies

None.

Supplemental media

None.

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