

IBM FlashSystem 5000 models deliver innovative and simplified storage with enhanced performance to meet the growing needs of small and medium organizations

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At a glance

IBM FlashSystem[®] 5000, formerly IBM[®] Storwize[®] V5000E, is a member of the FlashSystem family of storage solutions. FlashSystem 5000 delivers increased performance and levels of storage efficiency with superior ease of use. This entry storage solution enables organizations to overcome their storage challenges. Built with IBM Spectrum[®] Virtualize software, the FlashSystem family is an industry-leading solution for storage virtualization that includes technologies to complement and enhance virtual environments, delivering a simpler, more scalable and cost-efficient IT infrastructure.

IBM FlashSystem 5030 and 5010, formerly Storwize V5010E and V5030E, are the next generation of FlashSystem control enclosures designed to deliver a range of performance, scalability, and functional capabilities.

IBM FlashSystem 5030, formerly Storwize V5030E, features six-core processors with up to 64 GB total cache and attachment for up to twenty 2U expansion enclosures or up to eight 5U expansion enclosures, delivering support for up to 504 drives. FlashSystem 5030 supports system clustering including HyperSwap[®], data reduction pools with deduplication¹ and compression¹, and encryption of data at rest.

¹ Requires 64 GB of system cache

IBM FlashSystem 5010, formerly Storwize V5010E, features two-core processors with up to 64 GB total cache and attachment for up to ten 2U expansion enclosures or up to four 5U expansion enclosures, delivering support for up to 392 drives.

FlashSystem 5000 is an all-flash storage system that is also available in a hybrid flash configuration. These offerings and expansion enclosures are differentiated at the time of purchase by selecting either feature code "AHZD -- All Flash Indicator" or feature code "AHZE -- Hybrid Flash Indicator". An initial selection AHZD will ensure hybrid configurations will not be supported on configured system.

All FlashSystem 5000 generation models include:

- Dual-active intelligent array node canisters
- I/O connectivity options for 16 Gb Fibre Channel (FC), 12 Gb SAS, 10 Gb iSCSI, or 25 Gb iSCSI
- Twelve 3.5-inch large form factor (LFF) or twenty-four 2.5-inch small form factor (SFF) drive slots within the enclosure
- Support for the attachment of FlashSystem 5000 12 Gb SAS expansion enclosures

- Support for optional licensed features such as thin provisioning, Easy Tier^(R), FlashCopy^(R), and remote mirroring
- Innovative, intuitive web-based GUI for easy system setup and management
- A 2U, 19-inch rack mount enclosure with either AC or DC power

All models are delivered in a 2U, 19-inch rack mount enclosure and include a three-year warranty with customer replaceable unit (CRU) and on-site service. Optional warranty service upgrades are available for enhanced levels of warranty service.

Overview

FlashSystem 5000 features two node canisters in a compact, 2U 19-inch rackmount enclosure. Four models are available to deliver a range of performance, scalability, and functional capabilities. FlashSystem 5000 is available in the following models:

- Control enclosures:
 - FlashSystem 5030 SFF Dual Control Enclosure
 - FlashSystem 5030 LFF Dual Control Enclosure
 - FlashSystem 5010 SFF Dual Control Enclosure
 - FlashSystem 5010 LFF Dual Control Enclosure
- Expansion enclosures:
 - FlashSystem 5000 SFF Expansion Enclosure
 - FlashSystem 5000 LFF Expansion Enclosure
 - FlashSystem 5000 High Density LFF Expansion Enclosure

FlashSystem 5030 control enclosure models offer the highest level of performance, scalability, and functionality:

- Two 6-core processors and up to 64 GB of cache
- Support for 504 drives per system with the attachment of eight FlashSystem 5000 High Density LFF expansion enclosures and 1,008 drives with a two-way clustered configuration
- Data reduction pools with deduplication, compression, and thin provisioning for improved storage efficiency
- Encryption of data at rest stored within the FlashSystem 5030 system

FlashSystem 5010 control enclosure models offer entry-level performance, scalability, and functionality:

- Two 2-core processors and up to 64 GB of cache
- Support for 392 drives per system with the attachment of four FlashSystem 5000 High Density LFF expansion enclosures
- Data reduction pools with thin provisioning for improved storage efficiency

All FlashSystem 5000 models include:

- A 2U, 19-inch rackmount enclosure with either AC or DC power
- Dual-active intelligent array node canisters
- Twelve 3.5-inch LFF or twenty-four 2.5-inch SFF drive slots within the enclosure
- Support for the attachment of FlashSystem 5000 12 Gb SAS expansion enclosures
- I/O connectivity options for 16 Gb FC, 12 Gb SAS, 10 Gb iSCSI, or 25 Gb iSCSI
- Innovative, intuitive web-based GUI for easy system setup and management
- Virtualization of internal storage for rapid, flexible provisioning and simple configuration changes
- RAID levels 0, 1, 5, 6, 10 with distributed RAID 5 and 6

- Support for optional licensed features, including thin provisioning, Easy Tier, FlashCopy, and remote mirroring
 - IBM System Storage™ Easy Tier for automatic migration of frequently accessed data from disk drives to high performing flash drives
 - FlashCopy for creating instant copies of data for backup or application testing
 - Remote mirroring for data replication between systems at different locations through Metro Mirror and Global Mirror functions
- Extensive interoperability support with support for most major server platforms and operating systems
- One-way data migration to easily move your data onto a FlashSystem 5000 system

The three FlashSystem 5000 expansion enclosure models are 12G, 24G, and 92G. Model 12G (LFF) supports up to twelve 3.5-inch drives, while Model 24G (SFF) supports up to twenty-four 2.5-inch drives. The 92G holds ninety-two 3.5 inch SAS. High-performance disk drives, high-capacity nearline disk drives, and flash (solid state) drives are supported. Drives of the same form factor can be intermixed within an enclosure, and LFF and SFF expansion enclosures can be intermixed within a FlashSystem 5000 system.

All FlashSystem 5000 functional capabilities are provided through IBM Spectrum Virtualize Licensed Machine Code.

Key requirements

FlashSystem 5000 requires IBM Spectrum Virtualize licensed machine code level 8.2.1, or later.

See the FlashSystem 5000 product documentation and the [IBM Support site](#) for additional information on licensed machine code levels and other requirements.

For a comprehensive list of supported environments, devices, and configurations, go to the [IBM System Storage Interoperation Center \(SSIC\)](#).

Planned availability date

- March 6, 2020: All IBM FlashSystem 5000 models and features, except as noted below
- March 20, 2020: TAA Compliance (feature number 0983)

Description

FlashSystem 5000 offerings consist of four control enclosure models and three new expansion enclosure models:

- **FlashSystem 5030 control enclosure models 3H2 and 3H4**
 - Two node canisters, each with a six-core processor
 - 32 GB cache (16 GB per canister) with optional 64 GB cache (32 GB per canister)
 - 10 Gb iSCSI (copper) connectivity standard with optional 16 Gb FC, 12 Gb SAS, 10 Gb iSCSI (optical), 25 Gb iSCSI (optical) connectivity
 - 12 Gb SAS port for expansion enclosure attachment
 - Twelve slots for 3.5-inch LFF SAS drives (Model 3H2) and 24 slots for 2.5-inch SFF SAS drives (Model 3H4)
 - 2U, 19-inch rack mount enclosure with 100 - 240 V AC or -48 V DC power supplies

- **FlashSystem 5010 control enclosure models 2H2 and 2H4**
 - Two node canisters, each with a two-core processor
 - 16 GB cache (8 GB per canister) with optional 32 GB cache (16 GB per canister) or 64 GB cache (32 GB per canister)
 - 1 Gb iSCSI connectivity standard with optional 16 Gb FC, 12 Gb SAS, 10 Gb iSCSI (optical), 25 Gb iSCSI (optical), 1 Gb iSCSI connectivity
 - 12 Gb SAS port for expansion enclosure attachment
 - Twelve slots for 3.5-inch LFF SAS drives (Model 2H2) and 24 slots for 2.5-inch SFF SAS drives (Model 2H4)
 - 2U, 19-inch rack mount enclosure with 100 - 240 V AC or -48 V DC power supplies
- **FlashSystem 5000 expansion enclosure models 12G and 24G**
 - Two expansion canisters
 - 12 Gb SAS port for control enclosure and expansion enclosure attachment
 - Twelve slots for 3.5-inch LFF SAS drives (Model 12G) and 24 slots for 2.5-inch SFF SAS drives (Model 24G)
 - 2U, 19-inch rack mount enclosure with 100 - 240 V AC or -48 V DC power supplies
- **FlashSystem 5000 expansion enclosure Model 92G**
 - Two expansion canisters
 - 12 Gb SAS port for control enclosure and expansion enclosure attachment
 - Ninety-two slots for 3.5-inch LFF SAS drives
 - 5U, 19-inch rack mount enclosure with 180 - 264 V AC power supplies

All models are available with a three-year warranty.

FC, SAS, and iSCSI connectivity with intermix flexibility

All FlashSystem 5000 control enclosures include 1 Gb or 10 Gb Ethernet ports standard for iSCSI connectivity. The standard connectivity can be extended with additional ports or enhanced with additional connectivity through an optional I/O adapter card feature. The following configurations are available:

	1 Gb Ethernet (iSCSI)	10 Gb Ethernet - Copper (iSCSI)	12 Gb SAS	16 Gb FC	10 Gb Ethernet - Optical (iSCSI)	25 Gb iSCSI Ethernet
FlashSystem 5030	N/A	4 ports (standard)	8 ports (with optional adapter card feature ²)	8 ports (with optional adapter card feature ²)	8 ports (with optional adapter card feature ²)	4 ports (with optional adapter card feature ²)
FlashSystem 5010	4 ports (standard)	N/A	8 ports (with optional adapter card feature ²)	8 ports (with optional adapter card feature ²)	8 ports (with optional adapter card feature ²)	4 ports (with optional adapter card feature ²)

² One optional I/O adapter card feature is allowed per FlashSystem 5000 control enclosure.

N/A = Not available

Select ports on FlashSystem 5000 control enclosures support additional link speeds. For example, the 10 Gb Ethernet (copper) ports on FlashSystem 5030 also support 1 Gb iSCSI. For a comprehensive list of supported environments, devices, and configurations, go to the [IBM SSIC website](#).

Drive options and intermix flexibility meet a complete range of needs

FlashSystem 5000 is designed to support a complete range of data storage requirements, from highly utilized applications to high-capacity, low usage application with hybrid or all-flash solutions.

The following 3.5-inch LFF drives are supported:

- High-performance, enterprise class disk drives: 900 GB, 1.2 TB, 1.8 TB, and 2.4 TB 10,000 rpm³
- High-capacity, archival class nearline disk drives: 4 TB, 6 TB, 8 TB, 10 TB, 12 TB, and 14 TB 7,200 rpm

³ These are 2.5-inch drives packaged in a 3.5-inch carrier.

The following 2.5-inch SFF drives are supported:

- Flash drives: 800 GB, 1.92 TB, 3.84 TB, 7.68 TB, 15.36 TB, and 30.72 TB
- High-performance, enterprise class disk drives: 900 GB, 1.2 TB, 1.8 TB, and 2.4 TB 10,000 rpm
- High-capacity, archival class nearline disk drives: 2 TB 7,200 rpm

All drives are dual-port and hot-swappable. Drives of the same form factor can be intermixed within an enclosure, and LFF and SFF expansion enclosures can be intermixed behind either a LFF or SFF control enclosure.

Scalable configurations respond to growing capacity needs

A FlashSystem 5030 system scales to 504 drives per system with the attachment of eight FlashSystem 5000 High Density LFF expansion enclosures. FlashSystem 5030 systems can be clustered to help deliver even greater performance, bandwidth, and storage capacity. With two-way system clustering, the maximum size of a FlashSystem 5030 system increases to 1,008 drives.

FlashSystem 5010 systems scale to 392 drives per system with the attachment of four FlashSystem 5000 high-density LFF expansion enclosures.

Designed for high availability

FlashSystem 5000 is designed to offer high system and data availability with the following features:

- Dual-active, intelligent node canisters with mirrored cache
- Dual-port drives with automatic drive failure detection
- RAID levels 0, 1, 5, 6, 10 with distributed RAID 5 and 6
- Redundant hardware, including power supplies and fans
- Hot-swappable and customer replaceable components
- Automated path failover support for the data path between the server and the drives
- HyperSwap, only available on 5030 models

Rich set of functional capabilities standard with every system

As a member of the FlashSystem family, FlashSystem 5000 leverages IBM Spectrum Virtualize Software functions and management tools. The following functions are included with FlashSystem 5000 models:

- RAID levels 0, 1, 5, 6, 10 with distributed RAID 5 and 6 provides the flexibility to choose the level of data protection required.
- Virtualization of internal storage enables rapid, flexible provisioning and simple configuration changes.
- Thin provisioning optimizes efficiency by allocating disk storage space in a flexible manner among multiple users, based on the minimum space required by each user at any given time. With thin provisioning, applications consume only

the space they are actually using, not the total space that has been allocated to them.

- Data reduction pools increase existing infrastructure capacity utilization by leveraging new efficiency functions:
 - Automatically deallocate and reclaim capacity of thin-provisioned volumes containing deleted data and, for the first time, enable this reclaimed capacity to be reused by other volumes.
 - Block deduplication for increased efficiency of storage usage by utilizing pointers in duplicate blocks rather than keeping multiple copies⁴.
 - Compression improves efficiency by storing more active primary data in the same physical disk space⁴.
- Dynamic migration delivers efficiency and business value through a nondisruptive migration function.
- FlashCopy enables you to create copies of data for backup, parallel processing, testing, and development, and have the copies available almost immediately. FlashSystem 5000 supports up to 64 FlashCopy targets per system.
- Graphical user interface delivers intuitive data management designed with point-and-click system management capabilities.

⁴ FlashSystem 5030 models only.

Optional licensed functions and 90-day trial period

FlashSystem 5000 capabilities can be expanded with the following optional licensed functions. Each function is licensed to a FlashSystem 5000 control enclosure and covers the entire FlashSystem 5000 system (control enclosure and all attached expansion enclosures).

To help evaluate the benefits of these new capabilities, licensed functions (with the exception of FlashCopy upgrade) can be enabled at no charge for a 90-day trial period. Trials are initiated from the FlashSystem management GUI and do not require any IBM intervention. Upon expiration of the trial, the function will be automatically disabled unless a license key for that function has been installed onto the machine.

- FlashCopy enables the creation of copies of data for backup, parallel processing, testing, and development, and will allow the copies to be available almost immediately. All FlashSystem 5000 systems support up to 64 targets per system at no charge. The FlashCopy upgrade option increases this support to 2,040 FlashCopy targets per system.
- Easy Tier storage tiering helps optimize storage use with data location to improve system performance, reduce costs, and simplify management. Easy Tier automatically and dynamically moves frequently accessed data to flash (solid state) drives in the system, resulting in flash drive performance without manually creating and managing storage tier policies. Easy Tier makes it easy and economical to deploy flash drives in the environment.
- Remote mirroring provides storage system-based data replication using either synchronous or asynchronous data transfers:
 - Metro Mirror is designed to maintain a fully synchronized copy at metropolitan distances (up to 300 km).
 - Global Mirror is designed to operate asynchronously and helps maintain a copy at much greater distances (up to 8000 km).
 - Both functions are designed to support VMware Site Recovery Manager to help speed disaster recovery.
 - For ultimate flexibility, FlashSystem 5000 remote mirroring is designed to interoperate with any other IBM Spectrum Virtualize family system, including FlashSystem 7000, FlashSystem 5000, FlashSystem V9000, FlashSystem 9100, and IBM SAN Volume Controller.
 - The remote mirroring option must be acquired (or licensed) for both the primary (local) and secondary (remote) systems. If FlashSystem 5000 is mirrored to a system other than FlashSystem 5000, the other system must have the appropriate and applicable license for remote mirroring.

- HyperSwap requires remote mirroring to be activated on the machine. It delivers high availability configurations for resilient virtualized environments⁴.

Encryption for enhanced data security with FlashSystem 5030

FlashSystem 5030 supports encryption for data at rest. Encryption is performed by the FlashSystem 5030 control enclosure for data stored within the entire FlashSystem 5030 system, the FlashSystem 5030 control enclosure, and all attached FlashSystem 5000 expansion enclosures.

Encryption is enabled on FlashSystem 5030 through the acquisition of the Encryption Enablement feature. This feature enables encryption on the entire FlashSystem 5030 system.

The Encryption USB Flash Drives (Four Pack) feature or IBM Security Key Manager (SKLM) are required for encryption keys management.

IBM Storage Insights

Available at no charge, cloud-based IBM Storage Insights provides a single dashboard that gives you a clear view of all your IBM block storage. You'll be able to make better decisions by seeing trends in performance and capacity. Storage health information enables you to focus on areas needing attention and when IBM support is needed, Storage Insights simplifies uploading logs, speeds resolution with online configuration data, and provides an overview of open tickets all in one place. Storage Insights Pro is a subscription service that provides longer historical views of data, more reporting and optimization options, and supports IBM file and block storage together with EMC VNX and VMAX.

There is no ordering required. For registration and installation information, see the [IBM Storage Insights Enrollment](#) website.

Accessibility by people with disabilities

Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Report Request](#) website.

Product number

The following are newly announced features and models on the specified models of the IBM System Storage 2072 machine type:

Description	Machine type	Model	Feature
FlashSystem Expansion Bezel	2072	12F	ACZM
IBM FlashSystem 5000 LFF Expansion Enclosure	2072	12G	
JEMT Indicator	2072	12G	0021
TAA Compliance	2072	12G	0983
Bulk Order Indicator	2072	12G	5555
Power Cord - EMEA	2072	12G	9716
Power Cord - Australia/NZ	2072	12G	9717
Power Cord - Europe/Africa	2072	12G	9718
Power Cord - Denmark	2072	12G	9719

Description	Machine type	Model	Feature
Power Cord - South Africa	2072	12G	9720
Power Cord - Switzerland	2072	12G	9721
Power Cord - Chile/Italy	2072	12G	9722
Power Cord - Israel	2072	12G	9723
Power Cord - Argentina	2072	12G	9725
Power Cord - China	2072	12G	9726
Power Cord - PDU Connection	2072	12G	9730
Power Cord - US/ Group 1	2072	12G	9731
Power Cord - Taiwan	2072	12G	9732
Power Cord - Brazil	2072	12G	9733
Power Cord - India	2072	12G	9734
Power Cord - Japan	2072	12G	9735
Power Cord - Korea	2072	12G	9736
Power Cord - Chicago	2072	12G	9737
RFID AG/AP: 902-928 MHz	2072	12G	A2EV
RFID EMEA: 865.6-867.8 MHz	2072	12G	A2EW
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	12G	ACUA
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	12G	ACUB
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	12G	ACUC
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	12G	ACUE
OEM 1 FC Order Indicator	2072	12G	ACW1
OEM 2 FC Order Indicator	2072	12G	ACW2
OEM 3 FC Order Indicator	2072	12G	ACW3
OEM 4 FC Order Indicator	2072	12G	ACW4
OEM 5 FC Order Indicator	2072	12G	ACW5
OEM 6 FC Order Indicator	2072	12G	ACW6
OEM 7 FC Order Indicator	2072	12G	ACW7
OEM 8 FC Order Indicator	2072	12G	ACW8
OEM 9 FC Order Indicator	2072	12G	ACW9
OEM 10 FC Order Indicator	2072	12G	ACWA

Description	Machine type	Model	Feature
OEM 11 FC Order Indicator	2072	12G	ACWB
OEM 12 FC Order Indicator	2072	12G	ACWC
OEM 13 FC Order Indicator	2072	12G	ACWD
OEM 14 FC Order Indicator	2072	12G	ACWE
OEM 15 FC Order Indicator	2072	12G	ACWF
OEM 1 MTM Order Indicator	2072	12G	ACY1
OEM 2 MTM Order Indicator	2072	12G	ACY2
OEM 3 MTM Order Indicator	2072	12G	ACY3
OEM 4 MTM Order Indicator	2072	12G	ACY4
OEM 5 MTM Order Indicator	2072	12G	ACY5
OEM 6 MTM Order Indicator	2072	12G	ACY6
OEM 7 MTM Order Indicator	2072	12G	ACY7
OEM 8 MTM Order Indicator	2072	12G	ACY8
OEM 9 MTM Order Indicator	2072	12G	ACY9
OEM 10 MTM Order Indicator	2072	12G	ACYA
OEM 11 MTM Order Indicator	2072	12G	ACYB
OEM 12 MTM Order Indicator	2072	12G	ACYC
OEM 13 MTM Order Indicator	2072	12G	ACYD
OEM 14 MTM Order Indicator	2072	12G	ACYE
OEM 15 MTM Order Indicator	2072	12G	ACYF
Generic Bezel	2072	12G	ACZA
Generic Packaging	2072	12G	ACZF
Storwize Expansion Bezel	2072	12G	ACZK
Order Type 1 - CTO	2072	12G	ADN1
Order Type 2 - MTM Only	2072	12G	ADN2
Order Type 3 - FC Only	2072	12G	ADN3
No Rules Order Indicator	2072	12G	ADNR
TAA Designated Country	2072	12G	ADZ1
Shipping and Handling NC	2072	12G	AG00
Shipping and Handling - Model 324	2072	12G	AGJW
Shipping and Handling - Model 12F	2072	12G	AGJX

Description	Machine type	Model	Feature
Power Cord - DC	2072	12G	AHP4
Power Cord - PDU Connection (C20)	2072	12G	AHP6
AC Power Supply High Efficiency (Pair)	2072	12G	AHPA
DC Power Supply -48V (Pair)	2072	12G	AHPB
20A Circuit Breaker (Pair)	2072	12G	AHPC
Future use - reserved 1	2072	12G	AHY1
Future use - reserved 2	2072	12G	AHY2
Future use - reserved 3	2072	12G	AHY3
Future use - reserved 4	2072	12G	AHY4
Future use - reserved 5	2072	12G	AHY5
Future use - reserved 6	2072	12G	AHY6
Future use - reserved 7	2072	12G	AHY7
Future use - reserved 8	2072	12G	AHY8
Future use - reserved 9	2072	12G	AHY9
VersaStack Solution Indicator	2072	12G	AHZC
Hybrid Flash Indicator	2072	12G	AHZE
900 GB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	12G	AL27
1.2 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	12G	AL28
1.8 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	12G	AL29
2.4 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	12G	AL2A
4 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	12G	AL39
6 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	12G	AL3A
8 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	12G	AL3B
10 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	12G	AL3C
12 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	12G	AL3D
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	12G	AL3E
FlashSystem Expansion Bezel	2072	24F	ACZM

Description	Machine type	Model	Feature
IBM FlashSystem 5000 SFF Expansion Enclosure	2072	24G	
JEMT Indicator	2072	24G	0021
TAA Compliance	2072	24G	0983
Bulk Order Indicator	2072	24G	5555
Power Cord - EMEA	2072	24G	9716
Power Cord - Australia/NZ	2072	24G	9717
Power Cord - Europe/Africa	2072	24G	9718
Power Cord - Denmark	2072	24G	9719
Power Cord - South Africa	2072	24G	9720
Power Cord - Switzerland	2072	24G	9721
Power Cord - Chile/Italy	2072	24G	9722
Power Cord - Israel	2072	24G	9723
Power Cord - Argentina	2072	24G	9725
Power Cord - China	2072	24G	9726
Power Cord - PDU Connection	2072	24G	9730
Power Cord - US/ Group 1	2072	24G	9731
Power Cord - Taiwan	2072	24G	9732
Power Cord - Brazil	2072	24G	9733
Power Cord - India	2072	24G	9734
Power Cord - Japan	2072	24G	9735
Power Cord - Korea	2072	24G	9736
Power Cord - Chicago	2072	24G	9737
RFID AG/AP: 902-928 MHz	2072	24G	A2EV
RFID EMEA: 865.6-867.8 MHz	2072	24G	A2EW
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	24G	ACUA
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	24G	ACUB
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	24G	ACUC
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	24G	ACUE
OEM 1 FC Order Indicator	2072	24G	ACW1
OEM 2 FC Order Indicator	2072	24G	ACW2

Description	Machine type	Model	Feature
OEM 3 FC Order Indicator	2072	24G	ACW3
OEM 4 FC Order Indicator	2072	24G	ACW4
OEM 5 FC Order Indicator	2072	24G	ACW5
OEM 6 FC Order Indicator	2072	24G	ACW6
OEM 7 FC Order Indicator	2072	24G	ACW7
OEM 8 FC Order Indicator	2072	24G	ACW8
OEM 9 FC Order Indicator	2072	24G	ACW9
OEM 10 FC Order Indicator	2072	24G	ACWA
OEM 11 FC Order Indicator	2072	24G	ACWB
OEM 12 FC Order Indicator	2072	24G	ACWC
OEM 13 FC Order Indicator	2072	24G	ACWD
OEM 14 FC Order Indicator	2072	24G	ACWE
OEM 15 FC Order Indicator	2072	24G	ACWF
OEM 1 MTM Order Indicator	2072	24G	ACY1
OEM 2 MTM Order Indicator	2072	24G	ACY2
OEM 3 MTM Order Indicator	2072	24G	ACY3
OEM 4 MTM Order Indicator	2072	24G	ACY4
OEM 5 MTM Order Indicator	2072	24G	ACY5
OEM 6 MTM Order Indicator	2072	24G	ACY6
OEM 7 MTM Order Indicator	2072	24G	ACY7
OEM 8 MTM Order Indicator	2072	24G	ACY8
OEM 9 MTM Order Indicator	2072	24G	ACY9
OEM 10 MTM Order Indicator	2072	24G	ACYA
OEM 11 MTM Order Indicator	2072	24G	ACYB
OEM 12 MTM Order Indicator	2072	24G	ACYC
OEM 13 MTM Order Indicator	2072	24G	ACYD
OEM 14 MTM Order Indicator	2072	24G	ACYE
OEM 15 MTM Order Indicator	2072	24G	ACYF
Generic Bezel	2072	24G	ACZA
Generic Packaging	2072	24G	ACZF
Storwize Expansion Bezel	2072	24G	ACZK
Order Type 1 - CTO	2072	24G	ADN1

Description	Machine type	Model	Feature
Order Type 2 - MTM Only	2072	24G	ADN2
Order Type 3 - FC Only	2072	24G	ADN3
No Rules Order Indicator	2072	24G	ADNR
TAA Designated Country	2072	24G	ADZ1
Shipping and Handling NC	2072	24G	AG00
Shipping and Handling - Model 324	2072	24G	AGJW
Shipping and Handling - Model 24F	2072	24G	AGJY
Power Cord - DC	2072	24G	AHP4
Power Cord - PDU Connection (C20)	2072	24G	AHP6
AC Power Supply High Efficiency (Pair)	2072	24G	AHPA
DC Power Supply -48V (Pair)	2072	24G	AHPB
20A Circuit Breaker (Pair)	2072	24G	AHPC
Future use - reserved 1	2072	24G	AHY1
Future use - reserved 2	2072	24G	AHY2
Future use - reserved 3	2072	24G	AHY3
Future use - reserved 4	2072	24G	AHY4
Future use - reserved 5	2072	24G	AHY5
Future use - reserved 6	2072	24G	AHY6
Future use - reserved 7	2072	24G	AHY7
Future use - reserved 8	2072	24G	AHY8
Future use - reserved 9	2072	24G	AHY9
VersaStack Solution Indicator	2072	24G	AHZC
All Flash Indicator	2072	24G	AHZD
900 GB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	24G	AL68
1.2 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	24G	AL69
1.8 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	24G	AL6A
2.4 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	24G	AL6B
2 TB 7,200 rpm 12 Gb SAS NL 2.5 Inch HDD	2072	24G	AL76

Description	Machine type	Model	Feature
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL80
3.84TB 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL81
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL82
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL83
30.72TB 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL84
800 GB 3DWP 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL8A
IBM FlashSystem 5010 LFF Control Enclosure	2072	2H2	
JEMT Indicator	2072	2H2	0021
TAA Compliance	2072	2H2	0983
Bulk Order Indicator	2072	2H2	5555
Power Cord - EMEA	2072	2H2	9716
Power Cord - Australia/NZ	2072	2H2	9717
Power Cord - Europe/Africa	2072	2H2	9718
Power Cord - Denmark	2072	2H2	9719
Power Cord - South Africa	2072	2H2	9720
Power Cord - Switzerland	2072	2H2	9721
Power Cord - Chile/Italy	2072	2H2	9722
Power Cord - Israel	2072	2H2	9723
Power Cord - Argentina	2072	2H2	9725
Power Cord - China	2072	2H2	9726
Power Cord - PDU Connection	2072	2H2	9730
Power Cord - US/ Group 1	2072	2H2	9731
Power Cord - Taiwan	2072	2H2	9732
Power Cord - Brazil	2072	2H2	9733
Power Cord - India	2072	2H2	9734
Power Cord - Japan	2072	2H2	9735
Power Cord - Korea	2072	2H2	9736
Power Cord - Chicago	2072	2H2	9737
RFID AG/AP: 902-928 MHz	2072	2H2	A2EV

Description	Machine type	Model	Feature
RFID EMEA: 865.6-867.8 MHz	2072	2H2	A2EW
16 Gb FC LW SFP Transceivers (Pair)	2072	2H2	ACHU
0.6m SAS Cable (mSAS HD to mSAS)	2072	2H2	ACSA
1.5m SAS cable (mSAS HD to mSAS)	2072	2H2	ACSB
3m SAS cable (mSAS HD to mSAS)	2072	2H2	ACSC
1m OM3 Fiber Cable (LC)	2072	2H2	ACSQ
5m OM3 Fiber Cable (LC)	2072	2H2	ACSR
10m OM3 Fiber Cable (LC)	2072	2H2	ACSS
25m OM3 Fiber Cable (LC)	2072	2H2	ACST
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	2H2	ACUA
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	2H2	ACUB
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	2H2	ACUC
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	2H2	ACUE
OEM 1 FC Order Indicator	2072	2H2	ACW1
OEM 2 FC Order Indicator	2072	2H2	ACW2
OEM 3 FC Order Indicator	2072	2H2	ACW3
OEM 4 FC Order Indicator	2072	2H2	ACW4
OEM 5 FC Order Indicator	2072	2H2	ACW5
OEM 6 FC Order Indicator	2072	2H2	ACW6
OEM 7 FC Order Indicator	2072	2H2	ACW7
OEM 8 FC Order Indicator	2072	2H2	ACW8
OEM 9 FC Order Indicator	2072	2H2	ACW9
OEM 10 FC Order Indicator	2072	2H2	ACWA
OEM 11 FC Order Indicator	2072	2H2	ACWB
OEM 12 FC Order Indicator	2072	2H2	ACWC
OEM 13 FC Order Indicator	2072	2H2	ACWD
OEM 14 FC Order Indicator	2072	2H2	ACWE
OEM 15 FC Order Indicator	2072	2H2	ACWF

Description	Machine type	Model	Feature
OEM 1 MTM Order Indicator	2072	2H2	ACY1
OEM 2 MTM Order Indicator	2072	2H2	ACY2
OEM 3 MTM Order Indicator	2072	2H2	ACY3
OEM 4 MTM Order Indicator	2072	2H2	ACY4
OEM 5 MTM Order Indicator	2072	2H2	ACY5
OEM 6 MTM Order Indicator	2072	2H2	ACY6
OEM 7 MTM Order Indicator	2072	2H2	ACY7
OEM 8 MTM Order Indicator	2072	2H2	ACY8
OEM 9 MTM Order Indicator	2072	2H2	ACY9
OEM 10 MTM Order Indicator	2072	2H2	ACYA
OEM 11 MTM Order Indicator	2072	2H2	ACYB
OEM 12 MTM Order Indicator	2072	2H2	ACYC
OEM 13 MTM Order Indicator	2072	2H2	ACYD
OEM 14 MTM Order Indicator	2072	2H2	ACYE
OEM 15 MTM Order Indicator	2072	2H2	ACYF
Generic Bezel	2072	2H2	ACZA
Generic Packaging	2072	2H2	ACZF
Order Type 1 - CTO	2072	2H2	ADN1
Order Type 2 - MTM Only	2072	2H2	ADN2
Order Type 3 - FC Only	2072	2H2	ADN3
No Rules Order Indicator	2072	2H2	ADNR
TAA Designated Country	2072	2H2	ADZ1
Shipping and Handling NC	2072	2H2	AG00
Shipping and Handling - Model 212	2072	2H2	AGJT
Shipping and Handling - Model 324	2072	2H2	AGJW
Power Cord - DC	2072	2H2	AHP4
Power Cord - PDU Connection (C20)	2072	2H2	AHP6
AC Power Supply High Efficiency (Pair)	2072	2H2	AHPA
DC Power Supply -48V (Pair)	2072	2H2	AHPB
20A Circuit Breaker (Pair)	2072	2H2	AHPC
Future use - reserved 1	2072	2H2	AHY1

Description	Machine type	Model	Feature
Future use - reserved 2	2072	2H2	AHY2
Future use - reserved 3	2072	2H2	AHY3
Future use - reserved 4	2072	2H2	AHY4
Future use - reserved 5	2072	2H2	AHY5
Future use - reserved 6	2072	2H2	AHY6
Future use - reserved 7	2072	2H2	AHY7
Future use - reserved 8	2072	2H2	AHY8
Future use - reserved 9	2072	2H2	AHY9
VersaStack Solution Indicator	2072	2H2	AHZC
Hybrid Flash Indicator	2072	2H2	AHZE
Red Hat ^(R) OpenShift ^(R) Indicator	2072	2H2	AJGH
900 GB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	2H2	AL27
1.2 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	2H2	AL28
1.8 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	2H2	AL29
2.4 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	2H2	AL2A
4 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	2H2	AL39
6 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	2H2	AL3A
8 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	2H2	AL3B
10 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	2H2	AL3C
12 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	2H2	AL3D
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	2H2	AL3E
12 Gb SAS 4 Port Adapter Cards (Pair)	2072	2H2	ALBA
16 Gb FC 4 Port Adapter Cards (Pair)	2072	2H2	ALBB
10 Gb Ethernet 4 Port Adapter Cards (Pair)	2072	2H2	ALBD

Description	Machine type	Model	Feature
25GbE (RoCE) Adapter Cards (Pair)	2072	2H2	ALBE
25GbE (iWARP) Adapter Cards (Pair)	2072	2H2	ALBF
FlashCopy Upgrade	2072	2H2	ALE7
Remote Mirroring	2072	2H2	ALE8
Easy Tier	2072	2H2	ALE9
FlashSystem 5000 Cache Upgrade	2072	2H2	ALGA
IBM FlashSystem 5010 SFF Control Enclosure	2072	2H4	
JEMT Indicator	2072	2H4	0021
TAA Compliance	2072	2H4	0983
Bulk Order Indicator	2072	2H4	5555
Power Cord - EMEA	2072	2H4	9716
Power Cord - Australia/NZ	2072	2H4	9717
Power Cord - Europe/Africa	2072	2H4	9718
Power Cord - Denmark	2072	2H4	9719
Power Cord - South Africa	2072	2H4	9720
Power Cord - Switzerland	2072	2H4	9721
Power Cord - Chile/Italy	2072	2H4	9722
Power Cord - Israel	2072	2H4	9723
Power Cord - Argentina	2072	2H4	9725
Power Cord - China	2072	2H4	9726
Power Cord - PDU Connection	2072	2H4	9730
Power Cord - US/ Group 1	2072	2H4	9731
Power Cord - Taiwan	2072	2H4	9732
Power Cord - Brazil	2072	2H4	9733
Power Cord - India	2072	2H4	9734
Power Cord - Japan	2072	2H4	9735
Power Cord - Korea	2072	2H4	9736
Power Cord - Chicago	2072	2H4	9737
RFID AG/AP: 902-928 MHz	2072	2H4	A2EV
RFID EMEA: 865.6-867.8 MHz	2072	2H4	A2EW
16 Gb FC LW SFP Transceivers (Pair)	2072	2H4	ACHU

Description	Machine type	Model	Feature
0.6m SAS Cable (mSAS HD to mSAS)	2072	2H4	ACSA
1.5m SAS cable (mSAS HD to mSAS)	2072	2H4	ACSB
3m SAS cable (mSAS HD to mSAS)	2072	2H4	ACSC
1m OM3 Fiber Cable (LC)	2072	2H4	ACSQ
5m OM3 Fiber Cable (LC)	2072	2H4	ACSR
10m OM3 Fiber Cable (LC)	2072	2H4	ACSS
25m OM3 Fiber Cable (LC)	2072	2H4	ACST
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	2H4	ACUA
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	2H4	ACUB
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	2H4	ACUC
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	2H4	ACUE
OEM 1 FC Order Indicator	2072	2H4	ACW1
OEM 2 FC Order Indicator	2072	2H4	ACW2
OEM 3 FC Order Indicator	2072	2H4	ACW3
OEM 4 FC Order Indicator	2072	2H4	ACW4
OEM 5 FC Order Indicator	2072	2H4	ACW5
OEM 6 FC Order Indicator	2072	2H4	ACW6
OEM 7 FC Order Indicator	2072	2H4	ACW7
OEM 8 FC Order Indicator	2072	2H4	ACW8
OEM 9 FC Order Indicator	2072	2H4	ACW9
OEM 10 FC Order Indicator	2072	2H4	ACWA
OEM 11 FC Order Indicator	2072	2H4	ACWB
OEM 12 FC Order Indicator	2072	2H4	ACWC
OEM 13 FC Order Indicator	2072	2H4	ACWD
OEM 14 FC Order Indicator	2072	2H4	ACWE
OEM 15 FC Order Indicator	2072	2H4	ACWF
OEM 1 MTM Order Indicator	2072	2H4	ACY1
OEM 2 MTM Order Indicator	2072	2H4	ACY2

Description	Machine type	Model	Feature
OEM 3 MTM Order Indicator	2072	2H4	ACY3
OEM 4 MTM Order Indicator	2072	2H4	ACY4
OEM 5 MTM Order Indicator	2072	2H4	ACY5
OEM 6 MTM Order Indicator	2072	2H4	ACY6
OEM 7 MTM Order Indicator	2072	2H4	ACY7
OEM 8 MTM Order Indicator	2072	2H4	ACY8
OEM 9 MTM Order Indicator	2072	2H4	ACY9
OEM 10 MTM Order Indicator	2072	2H4	ACYA
OEM 11 MTM Order Indicator	2072	2H4	ACYB
OEM 12 MTM Order Indicator	2072	2H4	ACYC
OEM 13 MTM Order Indicator	2072	2H4	ACYD
OEM 14 MTM Order Indicator	2072	2H4	ACYE
OEM 15 MTM Order Indicator	2072	2H4	ACYF
Generic Bezel	2072	2H4	ACZA
Generic Packaging	2072	2H4	ACZF
Order Type 1 - CTO	2072	2H4	ADN1
Order Type 2 - MTM Only	2072	2H4	ADN2
Order Type 3 - FC Only	2072	2H4	ADN3
No Rules Order Indicator	2072	2H4	ADNR
TAA Designated Country	2072	2H4	ADZ1
Shipping and Handling NC	2072	2H4	AG00
Shipping and Handling - Model 224	2072	2H4	AGJU
Shipping and Handling - Model 324	2072	2H4	AGJW
Power Cord - DC	2072	2H4	AHP4
Power Cord - PDU Connection (C20)	2072	2H4	AHP6
AC Power Supply High Efficiency (Pair)	2072	2H4	AHPA
DC Power Supply -48V (Pair)	2072	2H4	AHPB
20A Circuit Breaker (Pair)	2072	2H4	AHPC
Future use - reserved 1	2072	2H4	AHY1
Future use - reserved 2	2072	2H4	AHY2
Future use - reserved 3	2072	2H4	AHY3

Description	Machine type	Model	Feature
Future use - reserved 4	2072	2H4	AHY4
Future use - reserved 5	2072	2H4	AHY5
Future use - reserved 6	2072	2H4	AHY6
Future use - reserved 7	2072	2H4	AHY7
Future use - reserved 8	2072	2H4	AHY8
Future use - reserved 9	2072	2H4	AHY9
VersaStack Solution Indicator	2072	2H4	AHZC
All Flash Indicator	2072	2H4	AHZD
Hybrid Flash Indicator	2072	2H4	AHZE
Red Hat OpenShift Indicator	2072	2H4	AJGH
900 GB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	2H4	AL68
1.2 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	2H4	AL69
1.8 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	2H4	AL6A
2.4 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	2H4	AL6B
2 TB 7,200 rpm 12 Gb SAS NL 2.5 Inch HDD	2072	2H4	AL76
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL80
3.84TB 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL81
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL82
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL83
30.72TB 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL84
800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL8A
12 Gb SAS 4 Port Adapter Cards (Pair)	2072	2H4	ALBA
16 Gb FC 4 Port Adapter Cards (Pair)	2072	2H4	ALBB
10 Gb Ethernet 4 Port Adapter Cards (Pair)	2072	2H4	ALBD
25GbE (RoCE) Adapter Cards (Pair)	2072	2H4	ALBE

Description	Machine type	Model	Feature
25GbE (iWARP) Adapter Cards (Pair)	2072	2H4	ALBF
FlashCopy Upgrade	2072	2H4	ALE7
Remote Mirroring	2072	2H4	ALE8
Easy Tier	2072	2H4	ALE9
FlashSystem 5000 Cache Upgrade	2072	2H4	ALGA
IBM FlashSystem 5030 LFF Control Enclosure	2072	3H2	
JEMT Indicator	2072	3H2	0021
TAA Compliance	2072	3H2	0983
Bulk Order Indicator	2072	3H2	5555
Power Cord - EMEA	2072	3H2	9716
Power Cord - Australia/NZ	2072	3H2	9717
Power Cord - Europe/Africa	2072	3H2	9718
Power Cord - Denmark	2072	3H2	9719
Power Cord - South Africa	2072	3H2	9720
Power Cord - Switzerland	2072	3H2	9721
Power Cord - Chile/Italy	2072	3H2	9722
Power Cord - Israel	2072	3H2	9723
Power Cord - Argentina	2072	3H2	9725
Power Cord - China	2072	3H2	9726
Power Cord - PDU Connection	2072	3H2	9730
Power Cord - US/ Group 1	2072	3H2	9731
Power Cord - Taiwan	2072	3H2	9732
Power Cord - Brazil	2072	3H2	9733
Power Cord - India	2072	3H2	9734
Power Cord - Japan	2072	3H2	9735
Power Cord - Korea	2072	3H2	9736
Power Cord - Chicago	2072	3H2	9737
RFID AG/AP: 902-928 MHz	2072	3H2	A2EV
RFID EMEA: 865.6-867.8 MHz	2072	3H2	A2EW
16 Gb FC LW SFP Transceivers (Pair)	2072	3H2	ACHU
0.6m SAS Cable (mSAS HD to mSAS)	2072	3H2	ACSA

Description	Machine type	Model	Feature
1.5m SAS cable (mSAS HD to mSAS)	2072	3H2	ACSB
3m SAS cable (mSAS HD to mSAS)	2072	3H2	ACSC
1m OM3 Fiber Cable (LC)	2072	3H2	ACSQ
5m OM3 Fiber Cable (LC)	2072	3H2	ACSR
10m OM3 Fiber Cable (LC)	2072	3H2	ACSS
25m OM3 Fiber Cable (LC)	2072	3H2	ACST
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	3H2	ACUA
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	3H2	ACUB
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	3H2	ACUC
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	3H2	ACUE
OEM 1 FC Order Indicator	2072	3H2	ACW1
OEM 2 FC Order Indicator	2072	3H2	ACW2
OEM 3 FC Order Indicator	2072	3H2	ACW3
OEM 4 FC Order Indicator	2072	3H2	ACW4
OEM 5 FC Order Indicator	2072	3H2	ACW5
OEM 6 FC Order Indicator	2072	3H2	ACW6
OEM 7 FC Order Indicator	2072	3H2	ACW7
OEM 8 FC Order Indicator	2072	3H2	ACW8
OEM 9 FC Order Indicator	2072	3H2	ACW9
OEM 10 FC Order Indicator	2072	3H2	ACWA
OEM 11 FC Order Indicator	2072	3H2	ACWB
OEM 12 FC Order Indicator	2072	3H2	ACWC
OEM 13 FC Order Indicator	2072	3H2	ACWD
OEM 14 FC Order Indicator	2072	3H2	ACWE
OEM 15 FC Order Indicator	2072	3H2	ACWF
OEM 1 MTM Order Indicator	2072	3H2	ACY1
OEM 2 MTM Order Indicator	2072	3H2	ACY2
OEM 3 MTM Order Indicator	2072	3H2	ACY3

Description	Machine type	Model	Feature
OEM 4 MTM Order Indicator	2072	3H2	ACY4
OEM 5 MTM Order Indicator	2072	3H2	ACY5
OEM 6 MTM Order Indicator	2072	3H2	ACY6
OEM 7 MTM Order Indicator	2072	3H2	ACY7
OEM 8 MTM Order Indicator	2072	3H2	ACY8
OEM 9 MTM Order Indicator	2072	3H2	ACY9
OEM 10 MTM Order Indicator	2072	3H2	ACYA
OEM 11 MTM Order Indicator	2072	3H2	ACYB
OEM 12 MTM Order Indicator	2072	3H2	ACYC
OEM 13 MTM Order Indicator	2072	3H2	ACYD
OEM 14 MTM Order Indicator	2072	3H2	ACYE
OEM 15 MTM Order Indicator	2072	3H2	ACYF
Generic Bezel	2072	3H2	ACZA
Generic Packaging	2072	3H2	ACZF
Order Type 1 - CTO	2072	3H2	ADN1
Order Type 2 - MTM Only	2072	3H2	ADN2
Order Type 3 - FC Only	2072	3H2	ADN3
No Rules Order Indicator	2072	3H2	ADNR
TAA Designated Country	2072	3H2	ADZ1
Shipping and Handling NC	2072	3H2	AG00
Shipping and Handling - Model 312	2072	3H2	AGJV
Shipping and Handling - Model 324	2072	3H2	AGJW
Power Cord - DC	2072	3H2	AHP4
Power Cord - PDU Connection (C20)	2072	3H2	AHP6
AC Power Supply High Efficiency (Pair)	2072	3H2	AHPA
DC Power Supply -48V (Pair)	2072	3H2	AHPB
20A Circuit Breaker (Pair)	2072	3H2	AHPC
Future use - reserved 1	2072	3H2	AHY1
Future use - reserved 2	2072	3H2	AHY2
Future use - reserved 3	2072	3H2	AHY3
Future use - reserved 4	2072	3H2	AHY4

Description	Machine type	Model	Feature
Future use - reserved 5	2072	3H2	AHY5
Future use - reserved 6	2072	3H2	AHY6
Future use - reserved 7	2072	3H2	AHY7
Future use - reserved 8	2072	3H2	AHY8
Future use - reserved 9	2072	3H2	AHY9
VersaStack Solution Indicator	2072	3H2	AHZC
Hybrid Flash Indicator	2072	3H2	AHZE
Red Hat OpenShift Indicator	2072	3H2	AJGH
900 GB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	3H2	AL27
1.2 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	3H2	AL28
1.8 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	3H2	AL29
2.4 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	3H2	AL2A
4 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	3H2	AL39
6 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	3H2	AL3A
8 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	3H2	AL3B
10 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	3H2	AL3C
12 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	3H2	AL3D
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	3H2	AL3E
12 Gb SAS 4 Port Adapter Cards (Pair)	2072	3H2	ALBA
16 Gb FC 4 Port Adapter Cards (Pair)	2072	3H2	ALBB
10 Gb Ethernet 4 Port Adapter Cards (Pair)	2072	3H2	ALBD
25GbE (RoCE) Adapter Cards (Pair)	2072	3H2	ALBE
25GbE (iWARP) Adapter Cards (Pair)	2072	3H2	ALBF
Encryption Enablement	2072	3H2	ALE1

Description	Machine type	Model	Feature
FlashCopy Upgrade	2072	3H2	ALE7
Remote Mirroring	2072	3H2	ALE8
Easy Tier	2072	3H2	ALE9
Encryption USB Flash Drives (Four Pack)	2072	3H2	ALEC
FlashSystem 5000 Cache Upgrade	2072	3H2	ALGA
IBM FlashSystem 5030 SFF Control Enclosure	2072	3H4	
JEMT Indicator	2072	3H4	0021
TAA Compliance	2072	3H4	0983
Bulk Order Indicator	2072	3H4	5555
Power Cord - EMEA	2072	3H4	9716
Power Cord - Australia/NZ	2072	3H4	9717
Power Cord - Europe/Africa	2072	3H4	9718
Power Cord - Denmark	2072	3H4	9719
Power Cord - South Africa	2072	3H4	9720
Power Cord - Switzerland	2072	3H4	9721
Power Cord - Chile/Italy	2072	3H4	9722
Power Cord - Israel	2072	3H4	9723
Power Cord - Argentina	2072	3H4	9725
Power Cord - China	2072	3H4	9726
Power Cord - PDU Connection	2072	3H4	9730
Power Cord - US/ Group 1	2072	3H4	9731
Power Cord - Taiwan	2072	3H4	9732
Power Cord - Brazil	2072	3H4	9733
Power Cord - India	2072	3H4	9734
Power Cord - Japan	2072	3H4	9735
Power Cord - Korea	2072	3H4	9736
Power Cord - Chicago	2072	3H4	9737
RFID AG/AP: 902-928 MHz	2072	3H4	A2EV
RFID EMEA: 865.6-867.8 MHz	2072	3H4	A2EW
16 Gb FC LW SFP Transceivers (Pair)	2072	3H4	ACHU
0.6m SAS Cable (mSAS HD to mSAS)	2072	3H4	ACSA

Description	Machine type	Model	Feature
1.5m SAS cable (mSAS HD to mSAS)	2072	3H4	ACSB
3m SAS cable (mSAS HD to mSAS)	2072	3H4	ACSC
1m OM3 Fiber Cable (LC)	2072	3H4	ACSQ
5m OM3 Fiber Cable (LC)	2072	3H4	ACSR
10m OM3 Fiber Cable (LC)	2072	3H4	ACSS
25m OM3 Fiber Cable (LC)	2072	3H4	ACST
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	3H4	ACUA
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	3H4	ACUB
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	3H4	ACUC
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	3H4	ACUE
OEM 1 FC Order Indicator	2072	3H4	ACW1
OEM 2 FC Order Indicator	2072	3H4	ACW2
OEM 3 FC Order Indicator	2072	3H4	ACW3
OEM 4 FC Order Indicator	2072	3H4	ACW4
OEM 5 FC Order Indicator	2072	3H4	ACW5
OEM 6 FC Order Indicator	2072	3H4	ACW6
OEM 7 FC Order Indicator	2072	3H4	ACW7
OEM 8 FC Order Indicator	2072	3H4	ACW8
OEM 9 FC Order Indicator	2072	3H4	ACW9
OEM 10 FC Order Indicator	2072	3H4	ACWA
OEM 11 FC Order Indicator	2072	3H4	ACWB
OEM 12 FC Order Indicator	2072	3H4	ACWC
OEM 13 FC Order Indicator	2072	3H4	ACWD
OEM 14 FC Order Indicator	2072	3H4	ACWE
OEM 15 FC Order Indicator	2072	3H4	ACWF
OEM 1 MTM Order Indicator	2072	3H4	ACY1
OEM 2 MTM Order Indicator	2072	3H4	ACY2
OEM 3 MTM Order Indicator	2072	3H4	ACY3

Description	Machine type	Model	Feature
OEM 4 MTM Order Indicator	2072	3H4	ACY4
OEM 5 MTM Order Indicator	2072	3H4	ACY5
OEM 6 MTM Order Indicator	2072	3H4	ACY6
OEM 7 MTM Order Indicator	2072	3H4	ACY7
OEM 8 MTM Order Indicator	2072	3H4	ACY8
OEM 9 MTM Order Indicator	2072	3H4	ACY9
OEM 10 MTM Order Indicator	2072	3H4	ACYA
OEM 11 MTM Order Indicator	2072	3H4	ACYB
OEM 12 MTM Order Indicator	2072	3H4	ACYC
OEM 13 MTM Order Indicator	2072	3H4	ACYD
OEM 14 MTM Order Indicator	2072	3H4	ACYE
OEM 15 MTM Order Indicator	2072	3H4	ACYF
Generic Bezel	2072	3H4	ACZA
Generic Packaging	2072	3H4	ACZF
Order Type 1 - CTO	2072	3H4	ADN1
Order Type 2 - MTM Only	2072	3H4	ADN2
Order Type 3 - FC Only	2072	3H4	ADN3
No Rules Order Indicator	2072	3H4	ADNR
TAA Designated Country	2072	3H4	ADZ1
Shipping and Handling NC	2072	3H4	AG00
Shipping and Handling - Model 324	2072	3H4	AGJW
Power Cord - DC	2072	3H4	AHP4
Power Cord - PDU Connection (C20)	2072	3H4	AHP6
AC Power Supply High Efficiency (Pair)	2072	3H4	AHPA
DC Power Supply -48V (Pair)	2072	3H4	AHPB
20A Circuit Breaker (Pair)	2072	3H4	AHPC
Future use - reserved 1	2072	3H4	AHY1
Future use - reserved 2	2072	3H4	AHY2
Future use - reserved 3	2072	3H4	AHY3
Future use - reserved 4	2072	3H4	AHY4
Future use - reserved 5	2072	3H4	AHY5

Description	Machine type	Model	Feature
Future use - reserved 6	2072	3H4	AHY6
Future use - reserved 7	2072	3H4	AHY7
Future use - reserved 8	2072	3H4	AHY8
Future use - reserved 9	2072	3H4	AHY9
VersaStack Solution Indicator	2072	3H4	AHZC
All Flash Indicator	2072	3H4	AHZD
Hybrid Flash Indicator	2072	3H4	AHZE
Red Hat OpenShift Indicator	2072	3H4	AJGH
900 GB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	3H4	AL68
1.2 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	3H4	AL69
1.8 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	3H4	AL6A
2.4 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2072	3H4	AL6B
2 TB 7,200 rpm 12 Gb SAS NL 2.5 Inch HDD	2072	3H4	AL76
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL80
3.84TB 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL81
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL82
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL83
30.72TB 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL84
800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL8A
12 Gb SAS 4 Port Adapter Cards (Pair)	2072	3H4	ALBA
16 Gb FC 4 Port Adapter Cards (Pair)	2072	3H4	ALBB
10 Gb Ethernet 4 Port Adapter Cards (Pair)	2072	3H4	ALBD
25GbE (RoCE) Adapter Cards (Pair)	2072	3H4	ALBE
25GbE (iWARP) Adapter Cards (Pair)	2072	3H4	ALBF

Description	Machine type	Model	Feature
Encryption Enablement	2072	3H4	ALE1
FlashCopy Upgrade	2072	3H4	ALE7
Remote Mirroring	2072	3H4	ALE8
Easy Tier	2072	3H4	ALE9
Encryption USB Flash Drives (Four Pack)	2072	3H4	ALEC
FlashSystem 5000 Cache Upgrade	2072	3H4	ALGA
FlashSystem Expansion Bezel	2072	92F	ACZM
IBM FlashSystem 5000 High Density LFF Expansion Enclosure	2072	92G	
JEMT Indicator	2072	92G	0021
TAA Compliance	2072	92G	0983
Bulk Order Indicator	2072	92G	5555
RFID AG/AP: 902-928 MHz	2072	92G	A2EV
RFID EMEA: 865.6-867.8 MHz	2072	92G	A2EW
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	92G	ACUC
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2072	92G	ACUE
OEM 1 FC Order Indicator	2072	92G	ACW1
OEM 2 FC Order Indicator	2072	92G	ACW2
OEM 3 FC Order Indicator	2072	92G	ACW3
OEM 4 FC Order Indicator	2072	92G	ACW4
OEM 5 FC Order Indicator	2072	92G	ACW5
OEM 6 FC Order Indicator	2072	92G	ACW6
OEM 7 FC Order Indicator	2072	92G	ACW7
OEM 8 FC Order Indicator	2072	92G	ACW8
OEM 9 FC Order Indicator	2072	92G	ACW9
OEM 10 FC Order Indicator	2072	92G	ACWA
OEM 11 FC Order Indicator	2072	92G	ACWB
OEM 12 FC Order Indicator	2072	92G	ACWC
OEM 13 FC Order Indicator	2072	92G	ACWD
OEM 14 FC Order Indicator	2072	92G	ACWE
OEM 15 FC Order Indicator	2072	92G	ACWF
OEM 1 MTM Order Indicator	2072	92G	ACY1

Description	Machine type	Model	Feature
OEM 2 MTM Order Indicator	2072	92G	ACY2
OEM 3 MTM Order Indicator	2072	92G	ACY3
OEM 4 MTM Order Indicator	2072	92G	ACY4
OEM 5 MTM Order Indicator	2072	92G	ACY5
OEM 6 MTM Order Indicator	2072	92G	ACY6
OEM 7 MTM Order Indicator	2072	92G	ACY7
OEM 8 MTM Order Indicator	2072	92G	ACY8
OEM 9 MTM Order Indicator	2072	92G	ACY9
OEM 10 MTM Order Indicator	2072	92G	ACYA
OEM 11 MTM Order Indicator	2072	92G	ACYB
OEM 12 MTM Order Indicator	2072	92G	ACYC
OEM 13 MTM Order Indicator	2072	92G	ACYD
OEM 14 MTM Order Indicator	2072	92G	ACYE
OEM 15 MTM Order Indicator	2072	92G	ACYF
Generic Bezel	2072	92G	ACZA
Generic Packaging	2072	92G	ACZF
Storwize Expansion Bezel	2072	92G	ACZK
Order Type 1 - CTO	2072	92G	ADN1
Order Type 2 - MTM Only	2072	92G	ADN2
Order Type 3 - FC Only	2072	92G	ADN3
No Rules Order Indicator	2072	92G	ADNR
TAA Designated Country	2072	92G	ADZ1
Shipping and Handling NC	2072	92G	AG00
Shipping and Handling - Model 324	2072	92G	AGJW
Shipping and Handling - Model 92F	2072	92G	AGJZ
Power Cord - PDU High Density Expansion	2072	92G	AHP5
Future use - reserved 1	2072	92G	AHY1
Future use - reserved 2	2072	92G	AHY2
Future use - reserved 3	2072	92G	AHY3
Future use - reserved 4	2072	92G	AHY4
Future use - reserved 5	2072	92G	AHY5

Description	Machine type	Model	Feature
Future use - reserved 6	2072	92G	AHY6
Future use - reserved 7	2072	92G	AHY7
Future use - reserved 8	2072	92G	AHY8
Future use - reserved 9	2072	92G	AHY9
VersaStack Solution Indicator	2072	92G	AHZC
Hybrid Flash Indicator	2072	92G	AHZE
1.2 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	92G	AL43
1.8 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	92G	AL44
2.4 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2072	92G	AL45
6 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	92G	AL47
8 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	92G	AL48
10 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	92G	AL49
12 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	92G	AL4A
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2072	92G	AL4B
1.92TB 12 Gb SAS 3.5 Inch Flash Drive	2072	92G	AL4J
3.84TB 12 Gb SAS 3.5 Inch Flash Drive	2072	92G	AL4K
7.68TB 12 Gb SAS 3.5 Inch Flash Drive	2072	92G	AL4L
15.36TB 12 Gb SAS 3.5 Inch Flash Drive	2072	92G	AL4M
30.72TB 12 Gb SAS 3.5 Inch Flash Drive	2072	92G	AL4N

Model conversions

From model	To model	Returned Parts MES
2072-2H2	2072-3H2	No
2072-2H4	2072-3H4	No

Note: Model conversions require that feature code ALGA be present in the system or it is ordered at the same time of the conversion.

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld^(R) ID and password are required (use IBMid).

[BP Attachment for Announcement Letter 120-010](#)

Education support

IBM Global Services IT Education Services provides education and training to support many IBM offerings. Course descriptions, training paths, and links to other IBM learning resources are available at the [IBM Authorized Training](#) website.

Publications

To order additional hardcopy publications for a fee or download free PDF format publications, go to the [IBM Publications Center](#) website.

IBM Knowledge Center provides you with a single point of reference where you can access product documentation for IBM systems hardware, operating systems, and server software. Through a consistent framework, you can efficiently find information and personalize your access by going to [IBM Knowledge Center](#) for all your product information needs.

To access the IBM Publications Center Portal, go to the [IBM Publications Center](#) website.

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, which can currently be downloaded.

Services

IBM Systems Lab Services

IBM Systems Lab Services offers a wide array of services available for your enterprise. It brings expertise on the latest technologies from the IBM development community and can help with your most difficult technical challenges.

IBM Systems Lab Services exists to help you successfully implement emerging technologies so as to accelerate your return on investment and improve your satisfaction with your IBM systems and solutions. Services examples include initial implementation, integration, migration, and skills transfer on IBM systems solution capabilities and recommended practices. IBM Systems Lab Services is one of the service organizations of IBM's world-renowned IBM Systems Group development labs.

For details on available services, contact your IBM representative or go to the [Lab Services](#) website.

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an on-demand business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or go to the [IBM Global Technology Services^{\(R\)}](#) website.

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or go to the [Resiliency Services](#) website.

Details on education offerings related to specific products can be found on the [IBM authorized training](#) website.

Technical information

Specified operating environment

Physical specifications

- Height: 8.7 cm (3.4 in.)
- Width: 48.3 cm (19.0 in.)
- Depth: 55.6 cm (21.9 in.)
- Approximate weight:
 - LFF control enclosure:
 - Empty: 17.4 kg (38.3 lb)
 - Fully configured: 27.7 kg (61.0 lb)
 - LFF expansion enclosure:
 - Empty: 16.4 kg (36.1 lb)
 - Fully configured: 26.7 kg (58.7 lb)
 - SFF control enclosure:
 - Empty: 17.7 kg (38.9 lb)
 - Fully configured: 26.0 kg (57.2 lb)
 - SFF expansion enclosure:
 - Empty: 16.7 kg (36.7 lb)
 - Fully configured: 25.0 kg (55.0 lb)

LFF HD expansion enclosure

- Height: 220 mm (8.66 in.)
- Width: 438 mm (17.24 in.)
- Depth: 1013 mm (39.88 in.)
- Approximate weight:
 - Empty: 42.5 kg (93.7 lb)
 - Fully configured with flash drives: 78.6 kg (173.3 lb)
 - Fully configured with 10k rpm HDDs: 86 kg (189.6 lb)
 - Fully configured with 7.2k rpm HDDs: 138.6 kg (305.6 lb)

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

Standards

Note: This product was designed, tested, manufactured, and certified for safe operation. It complies with IEC 60950-1 and/or IEC 62368-1 and where required, to relevant national differences/deviations (NDs) to these IEC base standards. This includes, but is not limited to: EN (European Norms including all Amendments under the Low Voltage Directive), UL/CSA (North America bi-national harmonized and marked per accredited NRTL agency listings), and other such derivative certifications

according to corporate determinations and latest regional publication compliance standardized requirements.

- Regulatory Model ID (RMID, for control system base platform): FBIII

(Relevant machine type - models may also be used to supplement identification for worldwide co-compliance filings or registrations with regulatory bodies.)

Operating environment

Air temperature:

- Operating: 5°C - 40°C (41°F - 104°F) up to 950 m (3,117 ft) above sea level. Above 950 m, de-rate maximum air temperature 1 degree per 175 m.
- Model 92G: 5°C - 35°C (41°F - 95°F) up to 950 m (3,117 ft) above sea level. Above 950 m, de-rate maximum air temperature 1 degree per 175 m.
- Nonoperating: 1°C - 60°C (33.8°F - 140°F)

Relative humidity:

- Operating: 8% - 85%
- Nonoperating: 8% - 85%

Electrical power:

- AC power:
 - Voltage range: 100 - 240 V AC
 - Frequency: 50 - 60 Hz
 - Power:
 - Control enclosure: 800 watts
 - Expansion enclosures: 800 watts
- DC power:
 - Voltage range: -42 to -60 V DC
 - Voltage nominal: -48 V DC
 - Current: 12.0 A
 - Power:
 - Control enclosure: 800 watts
 - Expansion enclosures: 800 watts

Models with the DC power feature require an electrically rated 20A circuit breaker for the -48 V DC input. The wiring between the dc power source and the FlashSystem 5000 DC power supply connectors must be with 12AWG copper wires.

Heat dissipation:

- Control enclosure: 2,730 BTU per hour
- Expansion enclosure: 2,730 BTU per hour
- HD expansion enclosure: 8,189 BTU per hour

Acoustical noise emission:

- LFF and SFF control enclosures:
 - 6.2 bels (idling)
 - 6.1 bels (operating)
- LFF expansion enclosure:

- 6.1 bels (idling)
- 6.1 bels (operating)
- SFF expansion enclosure:
 - 6.2 bels (idling)
 - 6.2 bels (operating)
- HD expansion enclosure:
 - 7.8 bels (idling)
 - 7.8 bels (operating)

Software requirements

FlashSystem 5000 requires licensed machine code level 8.2.1, or later.

See the FlashSystem 5000 product documentation and the [IBM Support](#) site for additional information on licensed machine code levels and other requirements.

For a comprehensive list of supported environments, devices, and configurations, go to the [IBM SSIC](#) website.

Compatibility

For a comprehensive list of supported environments, devices, and configurations, go to the [IBM SSIC](#).

Limitations

Drive considerations

Distributed RAID 6 (recommended) and Distributed RAID 5 (supported).

Configuration limitations and restrictions

For FlashSystem 5000 configuration limitations and restrictions, go to the [IBM Support Portal](#) and enter *FlashSystem 5000 configuration limitations and restrictions* in the Search support box.

Consider the following rules when planning for the maximum configuration in terms of drive slots and expansion enclosures that a specific system can be configured with.

Expansion enclosure attachment rules:

Product	Machine type	Model	SAS chains per control enclosure or node pair	Max. expansion enclosure per SAS chain (2U- / 5U-92G)	Max. qty of drive slots per SAS chain	Max. qty of drive slots per control enclosure or node pair	Max. qty of drive slots per clustered system
FlashSystem 5010	2072	2H2,2H4	1	10/4	368	392	N/A
FlashSystem 5030	2072	3H2,3H4	2	10/4	368	504	1008

2U expansion enclosures and 5U expansion enclosure mix rules:

Maximum # of Drive Slots per SAS expansion string 5U												
2U	0	1	2	3	4	5	6	7	8	9	10	
0	0	24	48	72	96	120	144	168	192	216	240	
1	92	116	140	164	188	212	236	260	-	-	-	
2	184	208	232	256	280	304	-	-	-	-	-	
3	276	300	324	-	-	-	-	-	-	-	-	
4	368	-	-	-	-	-	-	-	-	-	-	

Encryption

The Encryption Enablement feature (number ALE1) and the Encryption USB Drive Pack feature (feature number ALEC) are only available for FlashSystem 5030 models, and are not available in the following countries:

- Belarus
- Kazakhstan
- People's Republic of China
- Russia

Shipments to India, Russia, Japan, and Korea

FlashSystem 5000 machines shipped prior to the published planned availability date for India, Russia, Japan, and Korea are not compliant with associated India, Russia, Japan, or Korea certification and product labeling requirements. If you did not acquire your machine from IBM as a direct shipment to these countries, you are responsible for validating the machine has the appropriate certifications and product labels.

Contact your IBM sales representative or IBM Business Partner for assistance with this validation.

Certifications and product labels

Machines directly shipped from IBM are compliant with certification and product labeling requirements for the country into which the machine is shipped. You are responsible for validating the machine has the appropriate certifications and product labels if the machine is relocated to another country.

Contact your IBM sales representative or IBM Business Partner for assistance with this validation.

Planning information

Client responsibilities

Physical configuration and installation planning are client responsibilities.

You are responsible for downloading or obtaining from IBM, and installing designated Machine Code (microcode, basic input/output system code (called BIOS), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM internet website or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

Cable orders

Cables are required for the following:

- I/O connectivity to servers and fabric components
- Expansion enclosure attachment
- System management

As a convenience, a limited selection of cables can be ordered with the FlashSystem 5000 machine. See the [Product number](#) section for features numbers.

Cables, along with installation services, are also available from IBM Network Integration and Deployment Services, an IBM Global Services offering.

I/O connectivity cables

Host interface cables are required to connect FlashSystem 5000 I/O ports to server or fabric ports.

16 Gb FC: FlashSystem 5000 requires a 50.0/125 micrometer fiber optic cable terminated with an LC Duplex connector. The following fiber optic cables can be ordered with FlashSystem 5000 control enclosure models:

- 1-meter OM3 fiber cable (LC)
- 5-meter OM3 fiber cable (LC)
- 25-meter OM3 fiber cable (LC)
- 10-meter OM3 fibre cable (LC)

12 Gb SAS: FlashSystem 5000 requires a 12 Gb mini-SAS HD 4x cable terminated with an SFF-8644 (HD) connector. The following SAS cables can be ordered with FlashSystem 5000 control enclosure models:

- Cables terminated with a SFF-8088 connector for attachment to the server SAS port:
 - 0.6-meter SAS cable (mSAS HD to mSAS)
 - 1.5-meter SAS cable (mSAS HD to mSAS)
 - 3-meter SAS cable (mSAS HD to mSAS)
- Cables terminated with a SFF-8644 (HD) connector for attachment to the server SAS port:
 - 0.6-meter 12 Gb SAS cable (mSAS HD)
 - 1.5-meter 12 Gb SAS cable (mSAS HD)
 - 3-meter 12 Gb SAS cable (mSAS HD)

10 Gb Ethernet - Optical: FlashSystem 5000 requires a 10GBASE-SR cable terminated with an LC Duplex connector. The following can be ordered with FlashSystem 5000 control enclosure models:

- 1-meter OM3 fiber cable (LC)
- 5-meter OM3 fiber cable (LC)
- 25-meter OM3 fiber cable (LC)
- 10-meter OM3 fibre cable (LC)

A 50.0/125 micrometer fiber optic cable can also be used, subject to distance limitations.

10 Gb Ethernet - Copper (FlashSystem 5030 only): The 10 Gb Ethernet (copper) ports standard on FlashSystem 5030 require a 10GBASE-T Category 6A shielded cable terminated with an 8P8C modular connector (RJ45 compatible connector). This cable is not available for ordering with the machine and must be supplied by the client.

If these ports are used at a 1 Gb link speed, the 1 Gb Ethernet cables described below can be used.

1 Gb Ethernet: FlashSystem 5000 requires a Category 5 or Category 5E Ethernet cable terminated with an 8P8C modular connector (RJ45 compatible connector). This cable is not available for ordering with the machine and must be supplied by the client.

Expansion enclosure attachment cables

Expansion enclosure attachment cables are required to connect a FlashSystem 5000 expansion enclosure to the control enclosure and to another expansion enclosure. This requires a 12 Gb mini-SAS HD 4x cable terminated with SFF-8644 (HD) connectors.

The following SAS cables can be ordered with FlashSystem 5000 expansion enclosure models:

- 0.6-meter 12 Gb SAS cable (mSAS HD)
- 1.5-meter 12 Gb SAS cable (mSAS HD)
- 3-meter 12 Gb SAS cable (mSAS HD)
- 6-meter 12 Gb SAS cable (mSAS HD)

System management cables

FlashSystem 5030 requires:

- A 10GBASE-T Category 6A shielded cable terminated with an 8P8C modular connector (RJ45 compatible connector) when system management is performed over a 10 Gb link speed.
- A Category 5 or Category 5E Ethernet cable terminated with an 8P8C modular connector (RJ45 compatible connector) when system management is performed over a 1 Gb link speed.

FlashSystem 5010 require a Category 5 or Category 5E Ethernet cable terminated with an 8P8C modular connector (RJ45 compatible connector).

These cables are not available for ordering with the machine and must be supplied by the client.

Security, auditability, and control

This product uses the security and auditability features of the preloaded application software.

The client is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

IBM Systems Lab Services

For details on available services, contact your IBM representative or go to the [Lab Services](#) website.

Terms and conditions

Volume orders

Contact your IBM representative.

IBM Global Financing

Yes

Products - terms and conditions

Warranty period

Warranty and additional coverage options	Coverage summary ⁵
Warranty Period:	Three years standard warranty
Service Level:	IBM CRU and On-Site Limited, 9x5 Next Business Day
Service upgrade options	
Warranty Service Upgrade	IBM CRU and On-Site Repair, 9x5 Same Day ⁶ and 24x7 Same Day options
Maintenance Services (post-warranty)	IBM On-Site Repair, Next Business Day and Same Day options
IBM Hardware Maintenance Services - Committed maintenance ⁷	Yes

⁵ See complete coverage details below.

⁶ Only offered in US and EMEA.

⁷ Not offered in the US.

Three years (including the battery)

To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or IBM. An IBM part or feature installed during the initial installation of an IBM machine is subject to the full warranty period specified by IBM. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

Warranty service

If required, IBM provides repair or exchange service depending on the types of warranty service specified for the machine. IBM will attempt to resolve your problem over the telephone, or electronically through an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. If applicable to your product, parts considered Client Replaceable Units (CRUs) will be provided as part of the machine's standard warranty service.

Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country-specific and location-specific information.

CRU Service

IBM provides replacement CRUs to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request. CRUs are designated as being either a Tier 1 (mandatory) or a Tier 2 (optional) CRU.

Tier 1 (mandatory) CRU

Installation of Tier 1 CRUs, as specified in this announcement, is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

Tier 2 (optional) CRU

You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge.

Based upon availability, CRUs will be shipped for next business day (NBD) delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU. You may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

The following parts have been designated as Tier 1 CRUs (5000 control enclosures):

- Power Cable
- I/O adapter
- SFP
- DIMM
- system disk
- Fibre cable
- SAS cable
- Drive
- Coin cell
- Bezel
- Node battery
- PSU
- Rail kit
- Drive blank
- Node canister

The following parts have been designated as Tier 1 CRUs (5000 2U expansion enclosures):

- Power cable
- Drive
- Bezel
- PSU
- Rail kit
- Drive blank
- Mini SAS-HD cable
- Expansion canister

The following parts have been designated as Tier 1 CRUs (5000 5U expansion enclosures):

- Power cable
- Drive
- Fascia
- PSU
- Rail kit
- Fan module
- Drive blank

- Mini SAS-HD cable
- Control panel
- SAS expander module
- Cable management arms
- Lid
- Fan interface board
- Expansion canister
- Enclosure

CRU and On-site Service

At IBM's discretion, you will receive specified CRU service, or IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well-lit, and suitable for the purpose.

Service level is:

- 9 hours per day, Monday through Friday, excluding holidays, next business day response. Calls must be received by 5:00 PM local time in order to qualify for next business day response.

Non-IBM parts service

IBM is now shipping machines with selected non-IBM parts that contain an IBM field replaceable unit (FRU) part number label. These parts are to be serviced during the IBM machine warranty period. IBM is covering the service on these selected non-IBM parts as an accommodation to their clients, and normal warranty service procedures for the IBM machine apply.

International Warranty Service

International Warranty Service allows you to relocate any machine that is eligible for International Warranty Service and receive continued warranty service in any country where the IBM machine is serviced. If you move your machine to a different country, you are required to report the machine information to your Business Partner or IBM representative.

The warranty service type and the service level provided in the servicing country may be different from that provided in the country in which the machine was purchased. Warranty service will be provided with the prevailing warranty service type and service level available for the eligible machine type in the servicing country, and the warranty period observed will be that of the country in which the machine was purchased.

The following types of information can be found on the [International Warranty Service](#) website

- Machine warranty entitlement and eligibility
- Directory of contacts by country with technical support contact information
- Announcement Letters

Warranty service upgrades

During the warranty period, warranty service upgrades provide an enhanced level of On-site Service for an additional charge. Service levels are response-time objectives and are not guaranteed. See the Warranty services section for additional details.

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service

is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

- On-Site Repair, Monday through Friday (excluding holidays), 8am to 5pm, 4 hour on-site response objective. Response times are objectives and are not guaranteed.
- On-Site Repair, 7 days a week, 24hrs/day
- On-Site Repair, 7 days a week, 24hrs/day, 2 hour response objective. Response times are objectives and are not guaranteed.

Maintenance service options

Maintenance services

If required, IBM provides repair or exchange service depending on the types of maintenance service specified for the machine. IBM will attempt to resolve your problem over the telephone or electronically, through an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed. The specified level of maintenance service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country-specific and location-specific information. The following service selections are available as maintenance options for your machine type.

On-site Service

IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well-lit, and suitable for the purpose.

- On-Site Repair, Monday through Friday (excluding holidays), 8am to 5pm, next business day.
- On-Site Repair, Monday through Friday (excluding holidays), 8am to 5pm, 4 hour response objective. Response times are objectives and are not guaranteed.
- On-Site Repair, 7 days a week, 24hrs/day.
- On-Site Repair, 7 days a week, 24hrs/day, 2 hour response objective. Response times are objectives and are not guaranteed.

Client Replaceable Unit (CRU) Service

If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, or hard disk drive), and depending upon the maintenance service offerings in your geography, IBM will ship the replacement CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request.

Based upon availability, CRUs will be shipped for next business day delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, 1) return instructions and a container are shipped with the replacement CRU, and 2) you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

CRUs are designated as being either a Tier 1 (mandatory) or a Tier 2 (optional) CRU.

Tier 1 (mandatory) CRUs: Installation of Tier 1 CRUs, as specified in this announcement, is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

For machines with On-site Same-day Response Service, IBM will replace a Tier 1 CRU part at your request, at no additional charge.

Tier 2 (optional) CRUs: You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge.

The following parts have been designated as Tier 1 CRUs (5000 control enclosures):

- Power Cable
- I/O adapter
- SFP
- DIMM
- system disk
- Fibre cable
- SAS cable
- Drive
- Coin cell
- Bezel
- Node battery
- PSU
- Rail kit
- Drive blank
- Node canister

The following parts have been designated as Tier 1 CRUs (5000 2U expansion enclosures):

- Power cable
- Drive
- Bezel
- PSU
- Rail kit
- Drive blank
- Mini SAS-HD cable
- Expansion canister

The following parts have been designated as Tier 1 CRUs (5000 5U expansion enclosures):

- Power cable
- Drive
- Fascia
- PSU
- Rail kit
- Fan module
- Drive blank
- Mini SAS-HD cable
- Control panel
- SAS expander module
- Cable management arms
- Lid
- Fan interface board

- Expansion canister
- Enclosure

Feature codes for which there is a maintenance charge:

Description	Machine type	Model	Feature
800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL8A
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL80
3.84TB 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL81
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL82
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL83
30.72TB 12 Gb SAS 2.5 Inch Flash Drive	2072	2H4	AL84
800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL8A
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL80
3.84TB 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL81
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL82
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL83
30.72TB 12 Gb SAS 2.5 Inch Flash Drive	2072	3H4	AL84
800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL8A
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL80
3.84TB 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL81
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL82
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL83
30.72TB 12 Gb SAS 2.5 Inch Flash Drive	2072	24G	AL84
1.92TB 12 Gb SAS 3.5 Inch Flash Drive	2072	92G	AL4J

Description	Machine type	Model	Feature
3.84TB 12 Gb SAS 3.5 Inch Flash Drive	2072	92G	AL4K
7.68TB 12 Gb SAS 3.5 Inch Flash Drive	2072	92G	AL4L
15.36TB 12 Gb SAS 3.5 Inch Flash Drive	2072	92G	AL4M
30.72TB 12 Gb SAS 3.5 Inch Flash Drive	2072	92G	AL4N

Non-IBM parts service

Under certain conditions, IBM provides services for selected non-IBM parts at no additional charge for machines that are covered under warranty service upgrades or maintenance services.

This service includes hardware problem determination (PD) on the non-IBM parts (for example, adapter cards, PCMCIA cards, disk drives, memory) installed within IBM machines and provides the labor to replace the failing parts at no additional charge.

If IBM has a Technical Service Agreement with the manufacturer of the failing part, or if the failing part is an accommodations part (a part with an IBM FRU label), IBM may also source and replace the failing part at no additional charge. For all other non-IBM parts, clients are responsible for sourcing the parts. Installation labor is provided at no additional charge, if the machine is covered under a warranty service upgrade or a maintenance service.

Usage plan machine

No

IBM hourly service rate classification

Two

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

General terms and conditions

Field-installable features

Yes

Model conversions

Yes

Machine installation

Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

Graduated program license charges apply

No

Licensed Machine Code

IBM Machine Code is licensed for use by a client on the IBM machine for which it was provided by IBM under the terms and conditions of the IBM License Agreement for Machine Code, to enable the machine to function in accordance with its specifications, and only for the capacity authorized by IBM and acquired by the client. You can obtain the agreement from the [License Agreement for Machine Code and Licensed Internal Code](#) website.

Access to Machine Code updates is conditioned on entitlement and license validation in accordance with IBM policy and practice. IBM may verify entitlement through customer number, serial number, electronic restrictions, or any other means or methods employed by IBM in its discretion.

You may also obtain updated code by contacting your IBM representative.

If the machine does not function as warranted and your problem can be resolved through your application of downloadable Machine Code, you are responsible for downloading and installing these designated Machine Code changes as IBM specifies. If you would prefer, you may request IBM to install downloadable Machine Code changes; however, you may be charged for that service.

Educational allowance

A reduced charge is available to qualified education clients. The educational allowance may not be added to any other discount or allowance.

The educational allowance is 15% for the products in this announcement.

Prices

For additional information and current prices, contact your local IBM representative or IBM Business Partner.

The following are newly announced features and models on the specified models of the IBM System Storage 2072 machine type:

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
5010 LFF Control	2H2		Both	Yes	
5010 SFF Control	2H4		Both	Yes	
5030 LFF Control	3H2		Both	Yes	
5030 SFF Control	3H4		Both	Yes	
5000 LFF Expansion	12G		Both	Yes	
5000 SFF Expansion	24G		Both	Yes	
5000 HD LFF Expansion	92G		Both	Yes	
FlashSystem Expansion Bezel	12F	ACZM	MES	Yes	No
JEMT Indicator	12G	0021	Initial	Yes	No
TAA Compliance	12G	0983	Initial	Yes	No
Bulk Order Indicator	12G	5555	MES	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Power Cord - EMEA	12G	9716	Both	Yes	No
Power Cord - Australia/ NZ	12G	9717	Both	Yes	No
Power Cord - Europe/ Africa	12G	9718	Both	Yes	No
Power Cord - Denmark	12G	9719	Both	Yes	No
Power Cord - South Africa	12G	9720	Both	Yes	No
Power Cord - Switzerland	12G	9721	Both	Yes	No
Power Cord - Chile/Italy	12G	9722	Both	Yes	No
Power Cord - Israel	12G	9723	Both	Yes	No
Power Cord - Argentina	12G	9725	Both	Yes	No
Power Cord - China	12G	9726	Both	Yes	No
Power Cord - PDU Connection	12G	9730	Both	Yes	No
Power Cord - US/ Group 1	12G	9731	Both	Yes	No
Power Cord - Taiwan	12G	9732	Both	Yes	No
Power Cord - Brazil	12G	9733	Both	Yes	No
Power Cord - India	12G	9734	Both	Yes	No
Power Cord - Japan	12G	9735	Both	Yes	No
Power Cord - Korea	12G	9736	Both	Yes	No
Power Cord - Chicago	12G	9737	Both	Yes	No
RFID AG/AP: 902-928 MHz	12G	A2EV	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
RFID EMEA: 865.6-867.8 MHz	12G	A2EW	Initial	Yes	No
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	12G	ACUA	Both	Yes	No
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	12G	ACUB	Both	Yes	No
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	12G	ACUC	Both	Yes	No
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	12G	ACUE	Both	Yes	No
OEM 1 FC Order Indicator	12G	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	12G	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	12G	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	12G	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	12G	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	12G	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	12G	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	12G	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	12G	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	12G	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	12G	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	12G	ACWC	MES	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
OEM 13 FC Order Indicator	12G	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	12G	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	12G	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	12G	ACY1	Initial	Yes	No
OEM 2 MTM Order Indicator	12G	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	12G	ACY3	Initial	Yes	No
OEM 4 MTM Order Indicator	12G	ACY4	Initial	Yes	No
OEM 5 MTM Order Indicator	12G	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	12G	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	12G	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	12G	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	12G	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	12G	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	12G	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	12G	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	12G	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	12G	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	12G	ACYF	Initial	Yes	No
Generic Bezel	12G	ACZA	Initial	Yes	No
Generic Packaging	12G	ACZF	Initial	Yes	No
Storwize Expansion Bezel	12G	ACZK	MES	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Order Type 1 - CTO	12G	ADN1	Initial	Yes	No
Order Type 2 - MTM Only	12G	ADN2	Initial	Yes	No
Order Type 3 - FC Only	12G	ADN3	MES	Yes	No
No Rules Order Indicator	12G	ADNR	Both	Yes	No
TAA Designated Country	12G	ADZ1	Initial	Yes	No
Shipping and Handling NC	12G	AG00	Initial	Yes	No
Shipping and Handling - Model 324	12G	AGJW	Initial	Yes	No
Shipping and Handling - Model 12F	12G	AGJX	Initial	Yes	No
Power Cord - DC	12G	AHP4	Both	Yes	No
Power Cord - PDU Connection (C20)	12G	AHP6	Both	Yes	No
AC Power Supply High Efficiency (Pair)	12G	AHPA	Initial	Yes	No
DC Power Supply -48V (Pair)	12G	AHPB	Initial	Yes	No
20A Circuit Breaker (Pair)	12G	AHPC	Both	Yes	No
Future use - reserved 1	12G	AHY1	Initial	Yes	No
Future use - reserved 2	12G	AHY2	Initial	Yes	No
Future use - reserved 3	12G	AHY3	Initial	Yes	No
Future use - reserved 4	12G	AHY4	Initial	Yes	No
Future use - reserved 5	12G	AHY5	Initial	Yes	No
Future use - reserved 6	12G	AHY6	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Future use - reserved 7	12G	AHY7	Initial	Yes	No
Future use - reserved 8	12G	AHY8	Initial	Yes	No
Future use - reserved 9	12G	AHY9	Initial	Yes	No
VersaStack Solution Indicator	12G	AHZE	Initial	Yes	No
Hybrid Flash Indicator	12G	AHZE	Initial	Yes	No
900 GB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	12G	AL27	Both	Yes	No
1.2 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	12G	AL28	Both	Yes	No
1.8 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	12G	AL29	Both	Yes	No
2.4 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	12G	AL2A	Both	Yes	No
4 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	12G	AL39	Both	Yes	No
6 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	12G	AL3A	Both	Yes	No
8 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	12G	AL3B	Both	Yes	No
10 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	12G	AL3C	Both	Yes	No
12 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	12G	AL3D	Both	Yes	No
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	12G	AL3E	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
FlashSystem Expansion Bezel	24F	ACZM	MES	Yes	No
JEMT Indicator	24G	0021	Initial	Yes	No
TAA Compliance	24G	0983	Initial	Yes	No
Bulk Order Indicator	24G	5555	MES	Yes	No
Power Cord - EMEA	24G	9716	Both	Yes	No
Power Cord - Australia/ NZ	24G	9717	Both	Yes	No
Power Cord - Europe/ Africa	24G	9718	Both	Yes	No
Power Cord - Denmark	24G	9719	Both	Yes	No
Power Cord - South Africa	24G	9720	Both	Yes	No
Power Cord - Switzerland	24G	9721	Both	Yes	No
Power Cord - Chile/Italy	24G	9722	Both	Yes	No
Power Cord - Israel	24G	9723	Both	Yes	No
Power Cord - Argentina	24G	9725	Both	Yes	No
Power Cord - China	24G	9726	Both	Yes	No
Power Cord - PDU Connection	24G	9730	Both	Yes	No
Power Cord - US/ Group 1	24G	9731	Both	Yes	No
Power Cord - Taiwan	24G	9732	Both	Yes	No
Power Cord - Brazil	24G	9733	Both	Yes	No
Power Cord - India	24G	9734	Both	Yes	No
Power Cord - Japan	24G	9735	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Power Cord - Korea	24G	9736	Both	Yes	No
Power Cord - Chicago	24G	9737	Both	Yes	No
RFID AG/AP: 902-928 MHz	24G	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	24G	A2EW	Initial	Yes	No
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	24G	ACUA	Both	Yes	No
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	24G	ACUB	Both	Yes	No
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	24G	ACUC	Both	Yes	No
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	24G	ACUE	Both	Yes	No
OEM 1 FC Order Indicator	24G	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	24G	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	24G	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	24G	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	24G	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	24G	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	24G	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	24G	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	24G	ACW9	MES	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
OEM 10 FC Order Indicator	24G	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	24G	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	24G	ACWC	MES	Yes	No
OEM 13 FC Order Indicator	24G	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	24G	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	24G	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	24G	ACY1	Initial	Yes	No
OEM 2 MTM Order Indicator	24G	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	24G	ACY3	Initial	Yes	No
OEM 4 MTM Order Indicator	24G	ACY4	Initial	Yes	No
OEM 5 MTM Order Indicator	24G	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	24G	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	24G	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	24G	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	24G	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	24G	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	24G	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	24G	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	24G	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	24G	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	24G	ACYF	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Generic Bezel	24G	ACZA	Initial	Yes	No
Generic Packaging	24G	ACZF	Initial	Yes	No
Storwize Expansion Bezel	24G	ACZK	MES	Yes	No
Order Type 1 - CTO	24G	ADN1	Initial	Yes	No
Order Type 2 - MTM Only	24G	ADN2	Initial	Yes	No
Order Type 3 - FC Only	24G	ADN3	MES	Yes	No
No Rules Order Indicator	24G	ADNR	Both	Yes	No
TAA Designated Country	24G	ADZ1	Initial	Yes	No
Shipping and Handling NC	24G	AG00	Initial	Yes	No
Shipping and Handling - Model 324	24G	AGJW	Initial	Yes	No
Shipping and Handling - Model 24F	24G	AGJY	Initial	Yes	No
Power Cord - DC	24G	AHP4	Both	Yes	No
Power Cord - PDU Connection (C20)	24G	AHP6	Both	Yes	No
AC Power Supply High Efficiency (Pair)	24G	AHPA	Initial	Yes	No
DC Power Supply -48V (Pair)	24G	AHPB	Initial	Yes	No
20A Circuit Breaker (Pair)	24G	AHPC	Both	Yes	No
Future use - reserved 1	24G	AHY1	Initial	Yes	No
Future use - reserved 2	24G	AHY2	Initial	Yes	No
Future use - reserved 3	24G	AHY3	Initial	Yes	No
Future use - reserved 4	24G	AHY4	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Future use - reserved 5	24G	AHY5	Initial	Yes	No
Future use - reserved 6	24G	AHY6	Initial	Yes	No
Future use - reserved 7	24G	AHY7	Initial	Yes	No
Future use - reserved 8	24G	AHY8	Initial	Yes	No
Future use - reserved 9	24G	AHY9	Initial	Yes	No
VersaStack Solution Indicator	24G	AHZC	Initial	Yes	No
All Flash Indicator	24G	AHZD	Initial	Yes	No
900 GB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	24G	AL68	Both	Yes	No
1.2 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	24G	AL69	Both	Yes	No
1.8 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	24G	AL6A	Both	Yes	No
2.4 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	24G	AL6B	Both	Yes	No
2 TB 7,200 rpm 12 Gb SAS NL 2.5 Inch HDD	24G	AL76	Both	Yes	No
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	24G	AL80	Both	Yes	No
3.84TB 12 Gb SAS 2.5 Inch Flash Drive	24G	AL81	Both	Yes	No
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	24G	AL82	Both	Yes	No
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	24G	AL83	Both	Yes	No
30.72TB 12 Gb SAS	24G	AL84	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
2.5 Inch Flash Drive					
800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive	24G	AL8A	Both	Yes	No
JEMT Indicator	2H2	0021	Initial	Yes	No
TAA Compliance	2H2	0983	Initial	Yes	No
Bulk Order Indicator	2H2	5555	MES	Yes	No
Power Cord - EMEA	2H2	9716	Both	Yes	No
Power Cord - Australia/ NZ	2H2	9717	Both	Yes	No
Power Cord - Europe/ Africa	2H2	9718	Both	Yes	No
Power Cord - Denmark	2H2	9719	Both	Yes	No
Power Cord - South Africa	2H2	9720	Both	Yes	No
Power Cord - Switzerland	2H2	9721	Both	Yes	No
Power Cord - Chile/Italy	2H2	9722	Both	Yes	No
Power Cord - Israel	2H2	9723	Both	Yes	No
Power Cord - Argentina	2H2	9725	Both	Yes	No
Power Cord - China	2H2	9726	Both	Yes	No
Power Cord - PDU Connection	2H2	9730	Both	Yes	No
Power Cord - US/ Group 1	2H2	9731	Both	Yes	No
Power Cord - Taiwan	2H2	9732	Both	Yes	No
Power Cord - Brazil	2H2	9733	Both	Yes	No
Power Cord - India	2H2	9734	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Power Cord - Japan	2H2	9735	Both	Yes	No
Power Cord - Korea	2H2	9736	Both	Yes	No
Power Cord - Chicago	2H2	9737	Both	Yes	No
RFID AG/AP: 902-928 MHz	2H2	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	2H2	A2EW	Initial	Yes	No
16 Gb FC LW SFP Transceivers (Pair)	2H2	ACHU	Both	Yes	No
0.6m SAS Cable (mSAS HD to mSAS)	2H2	ACSA	Both	Yes	No
1.5m SAS cable (mSAS HD to mSAS)	2H2	ACSB	Both	Yes	No
3m SAS cable (mSAS HD to mSAS)	2H2	ACSC	Both	Yes	No
1m OM3 Fiber Cable (LC)	2H2	ACSQ	Both	Yes	No
5m OM3 Fiber Cable (LC)	2H2	ACSR	Both	Yes	No
10m OM3 Fiber Cable (LC)	2H2	ACSS	Both	Yes	No
25m OM3 Fiber Cable (LC)	2H2	ACST	Both	Yes	No
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2H2	ACUA	Both	Yes	No
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2H2	ACUB	Both	Yes	No
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2H2	ACUC	Both	Yes	No
6m 12 Gb SAS Cable	2H2	ACUE	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
(mSAS HD to mSAS HD)					
OEM 1 FC Order Indicator	2H2	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	2H2	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	2H2	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	2H2	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	2H2	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	2H2	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	2H2	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	2H2	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	2H2	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	2H2	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	2H2	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	2H2	ACWC	MES	Yes	No
OEM 13 FC Order Indicator	2H2	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	2H2	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	2H2	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	2H2	ACY1	Initial	Yes	No
OEM 2 MTM Order Indicator	2H2	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	2H2	ACY3	Initial	Yes	No
OEM 4 MTM Order Indicator	2H2	ACY4	Initial	Yes	No
OEM 5 MTM Order Indicator	2H2	ACY5	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
OEM 6 MTM Order Indicator	2H2	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	2H2	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	2H2	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	2H2	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	2H2	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	2H2	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	2H2	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	2H2	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	2H2	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	2H2	ACYF	Initial	Yes	No
Generic Bezel	2H2	ACZA	Initial	Yes	No
Generic Packaging	2H2	ACZF	Initial	Yes	No
Order Type 1 - CTO	2H2	ADN1	Initial	Yes	No
Order Type 2 - MTM Only	2H2	ADN2	Initial	Yes	No
Order Type 3 - FC Only	2H2	ADN3	MES	Yes	No
No Rules Order Indicator	2H2	ADNR	Both	Yes	No
TAA Designated Country	2H2	ADZ1	Initial	Yes	No
Shipping and Handling NC	2H2	AG00	Initial	Yes	No
Shipping and Handling - Model 212	2H2	AGJT	Initial	Yes	No
Shipping and Handling - Model 324	2H2	AGJW	Initial	Yes	No
Power Cord - DC	2H2	AHP4	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Power Cord - PDU Connection (C20)	2H2	AHP6	Both	Yes	No
AC Power Supply High Efficiency (Pair)	2H2	AHPA	Initial	Yes	No
DC Power Supply -48V (Pair)	2H2	AHPB	Initial	Yes	No
20A Circuit Breaker (Pair)	2H2	AHPC	Both	Yes	No
Future use - reserved 1	2H2	AHY1	Initial	Yes	No
Future use - reserved 2	2H2	AHY2	Initial	Yes	No
Future use - reserved 3	2H2	AHY3	Initial	Yes	No
Future use - reserved 4	2H2	AHY4	Initial	Yes	No
Future use - reserved 5	2H2	AHY5	Initial	Yes	No
Future use - reserved 6	2H2	AHY6	Initial	Yes	No
Future use - reserved 7	2H2	AHY7	Initial	Yes	No
Future use - reserved 8	2H2	AHY8	Initial	Yes	No
Future use - reserved 9	2H2	AHY9	Initial	Yes	No
VersaStack Solution Indicator	2H2	AHZC	Initial	Yes	No
Hybrid Flash Indicator	2H2	AHZE	Initial	Yes	No
Red Hat ^(R) OpenShift ^(R) Indicator	2H2	AJGH	Initial	Yes	No
900 GB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2H2	AL27	Both	Yes	No
1.2 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2H2	AL28	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
1.8 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2H2	AL29	Both	Yes	No
2.4 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	2H2	AL2A	Both	Yes	No
4 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2H2	AL39	Both	Yes	No
6 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2H2	AL3A	Both	Yes	No
8 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2H2	AL3B	Both	Yes	No
10 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2H2	AL3C	Both	Yes	No
12 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2H2	AL3D	Both	Yes	No
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2H2	AL3E	Both	Yes	No
12 Gb SAS 4 Port Adapter Cards (Pair)	2H2	ALBA	Both	Yes	No
16 Gb FC 4 Port Adapter Cards (Pair)	2H2	ALBB	Both	Yes	No
10 Gb Ethernet 4 Port Adapter Cards (Pair)	2H2	ALBD	Both	Yes	No
25GbE (RoCE) Adapter Cards (Pair)	2H2	ALBE	Both	Yes	No
25GbE (iWARP) Adapter	2H2	ALBF	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Cards (Pair)					
FlashCopy Upgrade	2H2	ALE7	Both	Yes	No
Remote Mirroring	2H2	ALE8	Both	Yes	No
Easy Tier	2H2	ALE9	Both	Yes	No
FlashSystem 5000 Cache Upgrade	2H2	ALGA	Both	Yes	No
JEMT Indicator	2H4	0021	Initial	Yes	No
TAA Compliance	2H4	0983	Initial	Yes	No
Bulk Order Indicator	2H4	5555	MES	Yes	No
Power Cord - EMEA	2H4	9716	Both	Yes	No
Power Cord - Australia/ NZ	2H4	9717	Both	Yes	No
Power Cord - Europe/ Africa	2H4	9718	Both	Yes	No
Power Cord - Denmark	2H4	9719	Both	Yes	No
Power Cord - South Africa	2H4	9720	Both	Yes	No
Power Cord - Switzerland	2H4	9721	Both	Yes	No
Power Cord - Chile/Italy	2H4	9722	Both	Yes	No
Power Cord - Israel	2H4	9723	Both	Yes	No
Power Cord - Argentina	2H4	9725	Both	Yes	No
Power Cord - China	2H4	9726	Both	Yes	No
Power Cord - PDU Connection	2H4	9730	Both	Yes	No
Power Cord - US/ Group 1	2H4	9731	Both	Yes	No
Power Cord - Taiwan	2H4	9732	Both	Yes	No
Power Cord - Brazil	2H4	9733	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Power Cord - India	2H4	9734	Both	Yes	No
Power Cord - Japan	2H4	9735	Both	Yes	No
Power Cord - Korea	2H4	9736	Both	Yes	No
Power Cord - Chicago	2H4	9737	Both	Yes	No
RFID AG/AP: 902-928 MHz	2H4	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	2H4	A2EW	Initial	Yes	No
16 Gb FC LW SFP Transceivers (Pair)	2H4	ACHU	Both	Yes	No
0.6m SAS Cable (mSAS HD to mSAS)	2H4	ACSA	Both	Yes	No
1.5m SAS cable (mSAS HD to mSAS)	2H4	ACSB	Both	Yes	No
3m SAS cable (mSAS HD to mSAS)	2H4	ACSC	Both	Yes	No
1m OM3 Fiber Cable (LC)	2H4	ACSQ	Both	Yes	No
5m OM3 Fiber Cable (LC)	2H4	ACSR	Both	Yes	No
10m OM3 Fiber Cable (LC)	2H4	ACSS	Both	Yes	No
25m OM3 Fiber Cable (LC)	2H4	ACST	Both	Yes	No
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2H4	ACUA	Both	Yes	No
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2H4	ACUB	Both	Yes	No
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2H4	ACUC	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
to mSAS HD)					
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	2H4	ACUE	Both	Yes	No
OEM 1 FC Order Indicator	2H4	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	2H4	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	2H4	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	2H4	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	2H4	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	2H4	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	2H4	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	2H4	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	2H4	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	2H4	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	2H4	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	2H4	ACWC	MES	Yes	No
OEM 13 FC Order Indicator	2H4	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	2H4	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	2H4	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	2H4	ACY1	Initial	Yes	No
OEM 2 MTM Order Indicator	2H4	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	2H4	ACY3	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
OEM 4 MTM Order Indicator	2H4	ACY4	Initial	Yes	No
OEM 5 MTM Order Indicator	2H4	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	2H4	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	2H4	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	2H4	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	2H4	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	2H4	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	2H4	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	2H4	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	2H4	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	2H4	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	2H4	ACYF	Initial	Yes	No
Generic Bezel	2H4	ACZA	Initial	Yes	No
Generic Packaging	2H4	ACZF	Initial	Yes	No
Order Type 1 - CTO	2H4	ADN1	Initial	Yes	No
Order Type 2 - MTM Only	2H4	ADN2	Initial	Yes	No
Order Type 3 - FC Only	2H4	ADN3	MES	Yes	No
No Rules Order Indicator	2H4	ADNR	Both	Yes	No
TAA Designated Country	2H4	ADZ1	Initial	Yes	No
Shipping and Handling NC	2H4	AG00	Initial	Yes	No
Shipping and Handling - Model 224	2H4	AGJU	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Shipping and Handling - Model 324	2H4	AGJW	Initial	Yes	No
Power Cord - DC	2H4	AHP4	Both	Yes	No
Power Cord - PDU Connection (C20)	2H4	AHP6	Both	Yes	No
AC Power Supply High Efficiency (Pair)	2H4	AHPA	Initial	Yes	No
DC Power Supply -48V (Pair)	2H4	AHPB	Initial	Yes	No
20A Circuit Breaker (Pair)	2H4	AHPC	Both	Yes	No
Future use - reserved 1	2H4	AHY1	Initial	Yes	No
Future use - reserved 2	2H4	AHY2	Initial	Yes	No
Future use - reserved 3	2H4	AHY3	Initial	Yes	No
Future use - reserved 4	2H4	AHY4	Initial	Yes	No
Future use - reserved 5	2H4	AHY5	Initial	Yes	No
Future use - reserved 6	2H4	AHY6	Initial	Yes	No
Future use - reserved 7	2H4	AHY7	Initial	Yes	No
Future use - reserved 8	2H4	AHY8	Initial	Yes	No
Future use - reserved 9	2H4	AHY9	Initial	Yes	No
VersaStack Solution Indicator	2H4	AHZC	Initial	Yes	No
All Flash Indicator	2H4	AHZD	Initial	Yes	No
Hybrid Flash Indicator	2H4	AHZE	Initial	Yes	No
Red Hat OpenShift Indicator	2H4	AJGH	Initial	Yes	No
900 GB 10,000 rpm 12 Gb	2H4	AL68	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
SAS 2.5 Inch HDD					
1.2 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2H4	AL69	Both	Yes	No
1.8 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2H4	AL6A	Both	Yes	No
2.4 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	2H4	AL6B	Both	Yes	No
2 TB 7,200 rpm 12 Gb SAS NL 2.5 Inch HDD	2H4	AL76	Both	Yes	No
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	2H4	AL80	Both	Yes	No
3.84TB 12 Gb SAS 2.5 Inch Flash Drive	2H4	AL81	Both	Yes	No
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	2H4	AL82	Both	Yes	No
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	2H4	AL83	Both	Yes	No
30.72TB 12 Gb SAS 2.5 Inch Flash Drive	2H4	AL84	Both	Yes	No
800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive	2H4	AL8A	Both	Yes	No
12 Gb SAS 4 Port Adapter Cards (Pair)	2H4	ALBA	Both	Yes	No
16 Gb FC 4 Port Adapter Cards (Pair)	2H4	ALBB	Both	Yes	No
10 Gb Ethernet 4 Port Adapter Cards (Pair)	2H4	ALBD	Both	Yes	No
25GbE (RoCE)	2H4	ALBE	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Adapter Cards (Pair)					
25GbE (iWARP) Adapter Cards (Pair)	2H4	ALBF	Both	Yes	No
FlashCopy Upgrade	2H4	ALE7	Both	Yes	No
Remote Mirroring	2H4	ALE8	Both	Yes	No
Easy Tier	2H4	ALE9	Both	Yes	No
FlashSystem 5000 Cache Upgrade	2H4	ALGA	Both	Yes	No
JEMT Indicator	3H2	0021	Initial	Yes	No
TAA Compliance	3H2	0983	Initial	Yes	No
Bulk Order Indicator	3H2	5555	MES	Yes	No
Power Cord - EMEA	3H2	9716	Both	Yes	No
Power Cord - Australia/ NZ	3H2	9717	Both	Yes	No
Power Cord - Europe/ Africa	3H2	9718	Both	Yes	No
Power Cord - Denmark	3H2	9719	Both	Yes	No
Power Cord - South Africa	3H2	9720	Both	Yes	No
Power Cord - Switzerland	3H2	9721	Both	Yes	No
Power Cord - Chile/Italy	3H2	9722	Both	Yes	No
Power Cord - Israel	3H2	9723	Both	Yes	No
Power Cord - Argentina	3H2	9725	Both	Yes	No
Power Cord - China	3H2	9726	Both	Yes	No
Power Cord - PDU Connection	3H2	9730	Both	Yes	No
Power Cord - US/ Group 1	3H2	9731	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Power Cord - Taiwan	3H2	9732	Both	Yes	No
Power Cord - Brazil	3H2	9733	Both	Yes	No
Power Cord - India	3H2	9734	Both	Yes	No
Power Cord - Japan	3H2	9735	Both	Yes	No
Power Cord - Korea	3H2	9736	Both	Yes	No
Power Cord - Chicago	3H2	9737	Both	Yes	No
RFID AG/AP: 902-928 MHz	3H2	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	3H2	A2EW	Initial	Yes	No
16 Gb FC LW SFP Transceivers (Pair)	3H2	ACHU	Both	Yes	No
0.6m SAS Cable (mSAS HD to mSAS)	3H2	ACSA	Both	Yes	No
1.5m SAS cable (mSAS HD to mSAS)	3H2	ACSB	Both	Yes	No
3m SAS cable (mSAS HD to mSAS)	3H2	ACSC	Both	Yes	No
1m OM3 Fiber Cable (LC)	3H2	ACSQ	Both	Yes	No
5m OM3 Fiber Cable (LC)	3H2	ACSR	Both	Yes	No
10m OM3 Fiber Cable (LC)	3H2	ACSS	Both	Yes	No
25m OM3 Fiber Cable (LC)	3H2	ACST	Both	Yes	No
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	3H2	ACUA	Both	Yes	No
1.5m 12 Gb SAS Cable (mSAS HD)	3H2	ACUB	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
to mSAS HD)					
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	3H2	ACUC	Both	Yes	No
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	3H2	ACUE	Both	Yes	No
OEM 1 FC Order Indicator	3H2	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	3H2	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	3H2	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	3H2	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	3H2	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	3H2	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	3H2	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	3H2	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	3H2	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	3H2	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	3H2	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	3H2	ACWC	MES	Yes	No
OEM 13 FC Order Indicator	3H2	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	3H2	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	3H2	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	3H2	ACY1	Initial	Yes	No
OEM 2 MTM Order Indicator	3H2	ACY2	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
OEM 3 MTM Order Indicator	3H2	ACY3	Initial	Yes	No
OEM 4 MTM Order Indicator	3H2	ACY4	Initial	Yes	No
OEM 5 MTM Order Indicator	3H2	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	3H2	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	3H2	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	3H2	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	3H2	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	3H2	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	3H2	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	3H2	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	3H2	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	3H2	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	3H2	ACYF	Initial	Yes	No
Generic Bezel	3H2	ACZA	Initial	Yes	No
Generic Packaging	3H2	ACZF	Initial	Yes	No
Order Type 1 - CTO	3H2	ADN1	Initial	Yes	No
Order Type 2 - MTM Only	3H2	ADN2	Initial	Yes	No
Order Type 3 - FC Only	3H2	ADN3	MES	Yes	No
No Rules Order Indicator	3H2	ADNR	Both	Yes	No
TAA Designated Country	3H2	ADZ1	Initial	Yes	No
Shipping and Handling NC	3H2	AG00	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Shipping and Handling - Model 312	3H2	AGJV	Initial	Yes	No
Shipping and Handling - Model 324	3H2	AGJW	Initial	Yes	No
Power Cord - DC	3H2	AHP4	Both	Yes	No
Power Cord - PDU Connection (C20)	3H2	AHP6	Both	Yes	No
AC Power Supply High Efficiency (Pair)	3H2	AHPA	Initial	Yes	No
DC Power Supply -48V (Pair)	3H2	AHPB	Initial	Yes	No
20A Circuit Breaker (Pair)	3H2	AHPC	Both	Yes	No
Future use - reserved 1	3H2	AHY1	Initial	Yes	No
Future use - reserved 2	3H2	AHY2	Initial	Yes	No
Future use - reserved 3	3H2	AHY3	Initial	Yes	No
Future use - reserved 4	3H2	AHY4	Initial	Yes	No
Future use - reserved 5	3H2	AHY5	Initial	Yes	No
Future use - reserved 6	3H2	AHY6	Initial	Yes	No
Future use - reserved 7	3H2	AHY7	Initial	Yes	No
Future use - reserved 8	3H2	AHY8	Initial	Yes	No
Future use - reserved 9	3H2	AHY9	Initial	Yes	No
VersaStack Solution Indicator	3H2	AHZC	Initial	Yes	No
Hybrid Flash Indicator	3H2	AHZE	Initial	Yes	No
Red Hat OpenShift Indicator	3H2	AJGH	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
900 GB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	3H2	AL27	Both	Yes	No
1.2 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	3H2	AL28	Both	Yes	No
1.8 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	3H2	AL29	Both	Yes	No
2.4 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	3H2	AL2A	Both	Yes	No
4 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	3H2	AL39	Both	Yes	No
6 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	3H2	AL3A	Both	Yes	No
8 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	3H2	AL3B	Both	Yes	No
10 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	3H2	AL3C	Both	Yes	No
12 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	3H2	AL3D	Both	Yes	No
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	3H2	AL3E	Both	Yes	No
12 Gb SAS 4 Port Adapter Cards (Pair)	3H2	ALBA	Both	Yes	No
16 Gb FC 4 Port Adapter Cards (Pair)	3H2	ALBB	Both	Yes	No
10 Gb Ethernet 4 Port Adapter	3H2	ALBD	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Cards (Pair)					
25GbE (RoCE) Adapter Cards (Pair)	3H2	ALBE	Both	Yes	No
25GbE (iWARP) Adapter Cards (Pair)	3H2	ALBF	Both	Yes	No
Encryption Enablement	3H2	ALE1	Both	Yes	No
FlashCopy Upgrade	3H2	ALE7	Both	Yes	No
Remote Mirroring	3H2	ALE8	Both	Yes	No
Easy Tier	3H2	ALE9	Both	Yes	No
Encryption USB Flash Drives (Four Pack)	3H2	ALEC	Both	Yes	No
FlashSystem 5000 Cache Upgrade	3H2	ALGA	Both	Yes	No
JEMT Indicator	3H4	0021	Initial	Yes	No
TAA Compliance	3H4	0983	Initial	Yes	No
Bulk Order Indicator	3H4	5555	MES	Yes	No
Power Cord - EMEA	3H4	9716	Both	Yes	No
Power Cord - Australia/ NZ	3H4	9717	Both	Yes	No
Power Cord - Europe/ Africa	3H4	9718	Both	Yes	No
Power Cord - Denmark	3H4	9719	Both	Yes	No
Power Cord - South Africa	3H4	9720	Both	Yes	No
Power Cord - Switzerland	3H4	9721	Both	Yes	No
Power Cord - Chile/Italy	3H4	9722	Both	Yes	No
Power Cord - Israel	3H4	9723	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Power Cord - Argentina	3H4	9725	Both	Yes	No
Power Cord - China	3H4	9726	Both	Yes	No
Power Cord - PDU Connection	3H4	9730	Both	Yes	No
Power Cord - US/ Group 1	3H4	9731	Both	Yes	No
Power Cord - Taiwan	3H4	9732	Both	Yes	No
Power Cord - Brazil	3H4	9733	Both	Yes	No
Power Cord - India	3H4	9734	Both	Yes	No
Power Cord - Japan	3H4	9735	Both	Yes	No
Power Cord - Korea	3H4	9736	Both	Yes	No
Power Cord - Chicago	3H4	9737	Both	Yes	No
RFID AG/AP: 902-928 MHz	3H4	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	3H4	A2EW	Initial	Yes	No
16 Gb FC LW SFP Transceivers (Pair)	3H4	ACHU	Both	Yes	No
0.6m SAS Cable (mSAS HD to mSAS)	3H4	ACSA	Both	Yes	No
1.5m SAS cable (mSAS HD to mSAS)	3H4	ACSB	Both	Yes	No
3m SAS cable (mSAS HD to mSAS)	3H4	ACSC	Both	Yes	No
1m OM3 Fiber Cable (LC)	3H4	ACSQ	Both	Yes	No
5m OM3 Fiber Cable (LC)	3H4	ACSR	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
10m OM3 Fiber Cable (LC)	3H4	ACSS	Both	Yes	No
25m OM3 Fiber Cable (LC)	3H4	ACST	Both	Yes	No
0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	3H4	ACUA	Both	Yes	No
1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)	3H4	ACUB	Both	Yes	No
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	3H4	ACUC	Both	Yes	No
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	3H4	ACUE	Both	Yes	No
OEM 1 FC Order Indicator	3H4	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	3H4	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	3H4	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	3H4	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	3H4	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	3H4	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	3H4	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	3H4	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	3H4	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	3H4	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	3H4	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	3H4	ACWC	MES	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
OEM 13 FC Order Indicator	3H4	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	3H4	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	3H4	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	3H4	ACY1	Initial	Yes	No
OEM 2 MTM Order Indicator	3H4	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	3H4	ACY3	Initial	Yes	No
OEM 4 MTM Order Indicator	3H4	ACY4	Initial	Yes	No
OEM 5 MTM Order Indicator	3H4	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	3H4	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	3H4	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	3H4	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	3H4	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	3H4	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	3H4	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	3H4	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	3H4	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	3H4	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	3H4	ACYF	Initial	Yes	No
Generic Bezel	3H4	ACZA	Initial	Yes	No
Generic Packaging	3H4	ACZF	Initial	Yes	No
Order Type 1 - CTO	3H4	ADN1	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Order Type 2 - MTM Only	3H4	ADN2	Initial	Yes	No
Order Type 3 - FC Only	3H4	ADN3	MES	Yes	No
No Rules Order Indicator	3H4	ADNR	Both	Yes	No
TAA Designated Country	3H4	ADZ1	Initial	Yes	No
Shipping and Handling NC	3H4	AG00	Initial	Yes	No
Shipping and Handling - Model 324	3H4	AGJW	Initial	Yes	No
Power Cord - DC	3H4	AHP4	Both	Yes	No
Power Cord - PDU Connection (C20)	3H4	AHP6	Both	Yes	No
AC Power Supply High Efficiency (Pair)	3H4	AHPA	Initial	Yes	No
DC Power Supply -48V (Pair)	3H4	AHPB	Initial	Yes	No
20A Circuit Breaker (Pair)	3H4	AHPC	Both	Yes	No
Future use - reserved 1	3H4	AHY1	Initial	Yes	No
Future use - reserved 2	3H4	AHY2	Initial	Yes	No
Future use - reserved 3	3H4	AHY3	Initial	Yes	No
Future use - reserved 4	3H4	AHY4	Initial	Yes	No
Future use - reserved 5	3H4	AHY5	Initial	Yes	No
Future use - reserved 6	3H4	AHY6	Initial	Yes	No
Future use - reserved 7	3H4	AHY7	Initial	Yes	No
Future use - reserved 8	3H4	AHY8	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Future use - reserved 9	3H4	AHY9	Initial	Yes	No
VersaStack Solution Indicator	3H4	AHZC	Initial	Yes	No
All Flash Indicator	3H4	AHZD	Initial	Yes	No
Hybrid Flash Indicator	3H4	AHZE	Initial	Yes	No
Red Hat OpenShift Indicator	3H4	AJGH	Initial	Yes	No
900 GB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	3H4	AL68	Both	Yes	No
1.2 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	3H4	AL69	Both	Yes	No
1.8 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	3H4	AL6A	Both	Yes	No
2.4 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD	3H4	AL6B	Both	Yes	No
2 TB 7,200 rpm 12 Gb SAS NL 2.5 Inch HDD	3H4	AL76	Both	Yes	No
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	3H4	AL80	Both	Yes	No
3.84TB 12 Gb SAS 2.5 Inch Flash Drive	3H4	AL81	Both	Yes	No
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	3H4	AL82	Both	Yes	No
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	3H4	AL83	Both	Yes	No
30.72TB 12 Gb SAS 2.5 Inch Flash Drive	3H4	AL84	Both	Yes	No
800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive	3H4	AL8A	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
12 Gb SAS 4 Port Adapter Cards (Pair)	3H4	ALBA	Both	Yes	No
16 Gb FC 4 Port Adapter Cards (Pair)	3H4	ALBB	Both	Yes	No
10 Gb Ethernet 4 Port Adapter Cards (Pair)	3H4	ALBD	Both	Yes	No
25GbE (RoCE) Adapter Cards (Pair)	3H4	ALBE	Both	Yes	No
25GbE (iWARP) Adapter Cards (Pair)	3H4	ALBF	Both	Yes	No
Encryption Enablement	3H4	ALE1	Both	Yes	No
FlashCopy Upgrade	3H4	ALE7	Both	Yes	No
Remote Mirroring	3H4	ALE8	Both	Yes	No
Easy Tier	3H4	ALE9	Both	Yes	No
Encryption USB Flash Drives (Four Pack)	3H4	ALEC	Both	Yes	No
FlashSystem 5000 Cache Upgrade	3H4	ALGA	Both	Yes	No
FlashSystem Expansion Bezel	92F	ACZM	MES	Yes	No
JEMT Indicator	92G	0021	Initial	Yes	No
TAA Compliance	92G	0983	Initial	Yes	No
Bulk Order Indicator	92G	5555	MES	Yes	No
RFID AG/AP: 902-928 MHz	92G	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	92G	A2EW	Initial	Yes	No
3m 12 Gb SAS Cable (mSAS HD to mSAS HD)	92G	ACUC	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
6m 12 Gb SAS Cable (mSAS HD to mSAS HD)	92G	ACUE	Both	Yes	No
OEM 1 FC Order Indicator	92G	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	92G	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	92G	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	92G	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	92G	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	92G	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	92G	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	92G	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	92G	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	92G	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	92G	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	92G	ACWC	MES	Yes	No
OEM 13 FC Order Indicator	92G	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	92G	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	92G	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	92G	ACY1	Initial	Yes	No
OEM 2 MTM Order Indicator	92G	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	92G	ACY3	Initial	Yes	No
OEM 4 MTM Order Indicator	92G	ACY4	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
OEM 5 MTM Order Indicator	92G	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	92G	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	92G	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	92G	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	92G	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	92G	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	92G	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	92G	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	92G	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	92G	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	92G	ACYF	Initial	Yes	No
Generic Bezel	92G	ACZA	Initial	Yes	No
Generic Packaging	92G	ACZF	Initial	Yes	No
Storwize Expansion Bezel	92G	ACZK	MES	Yes	No
Order Type 1 - CTO	92G	ADN1	Initial	Yes	No
Order Type 2 - MTM Only	92G	ADN2	Initial	Yes	No
Order Type 3 - FC Only	92G	ADN3	MES	Yes	No
No Rules Order Indicator	92G	ADNR	Both	Yes	No
TAA Designated Country	92G	ADZ1	Initial	Yes	No
Shipping and Handling NC	92G	AG00	Initial	Yes	No
Shipping and Handling - Model 324	92G	AGJW	Initial	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Shipping and Handling - Model 92F	92G	AGJZ	Initial	Yes	No
Power Cord - PDU High Density Expansion	92G	AHP5	Both	Yes	No
Future use - reserved 1	92G	AHY1	Initial	Yes	No
Future use - reserved 2	92G	AHY2	Initial	Yes	No
Future use - reserved 3	92G	AHY3	Initial	Yes	No
Future use - reserved 4	92G	AHY4	Initial	Yes	No
Future use - reserved 5	92G	AHY5	Initial	Yes	No
Future use - reserved 6	92G	AHY6	Initial	Yes	No
Future use - reserved 7	92G	AHY7	Initial	Yes	No
Future use - reserved 8	92G	AHY8	Initial	Yes	No
Future use - reserved 9	92G	AHY9	Initial	Yes	No
VersaStack Solution Indicator	92G	AHZC	Initial	Yes	No
Hybrid Flash Indicator	92G	AHZE	Initial	Yes	No
1.2 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	92G	AL43	Both	Yes	No
1.8 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	92G	AL44	Both	Yes	No
2.4 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD	92G	AL45	Both	Yes	No
6 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	92G	AL47	Both	Yes	No
8 TB 7,200 rpm 12 Gb	92G	AL48	Both	Yes	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
SAS NL 3.5 Inch HDD					
10 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	92G	AL49	Both	Yes	No
12 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	92G	AL4A	Both	Yes	No
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	92G	AL4B	Both	Yes	No
1.92TB 12 Gb SAS 3.5 Inch Flash Drive	92G	AL4J	Both	Yes	No
3.84TB 12 Gb SAS 3.5 Inch Flash Drive	92G	AL4K	Both	Yes	No
7.68TB 12 Gb SAS 3.5 Inch Flash Drive	92G	AL4L	Both	Yes	No
15.36TB 12 Gb SAS 3.5 Inch Flash Drive	92G	AL4M	Both	Yes	No
30.72TB 12 Gb SAS 3.5 Inch Flash Drive	92G	AL4N	Both	Yes	No

CSU = Customer setup

RP MES = Returnable parts MES

ServiceElect (ESA) charges

For ServiceElect (ESA) maintenance service charges, contact IBM Global Services at 888-IBM-4343 (426-4343).

Model conversion purchase price

From model	To model	Model conversion purchase price
2072-2H2	2072-3H2	
2072-2H4	2072-3H4	

Note: Model conversions require that feature code ALGA be present in the system or it is ordered at the same time of the conversion.

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Corrections

(Corrected on February 19, 2020)

The first sentence in the [Machine installation](#) section has been updated.