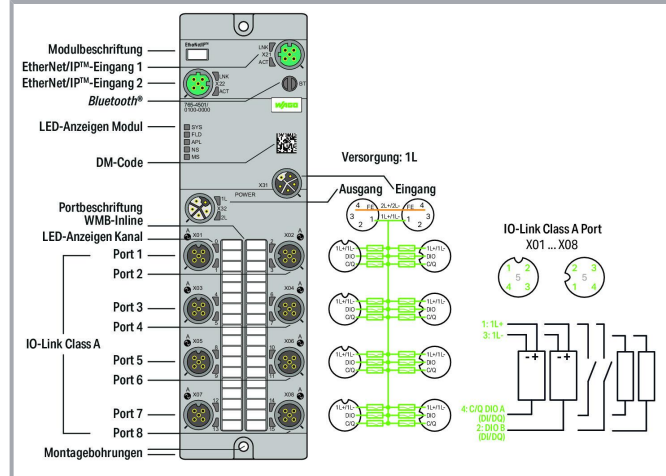


Data sheet | Item number: 765-4501/100-000

8-Port IO-Link Master Class A; EtherNet/IP; DC 24 V / 2.0 A; 8xM12 connection; WideLine

www.wago.com/765-4501/100-000



Subject to changes. Please also observe the further product documentation!

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Item description

Application area:

Decentralized processing of digital and IO-Link signals

This device controls IO-Link-capable digital field devices (e.g., actuators and hubs) and records digital signals from IO-Link-capable field devices (e.g., sensors and hubs) that are sent or received by a higher-level controller.

The device is designed as a Class A master and offers 8 IO-Link ports or 16 digital inputs/outputs.

IO-Link:

The device has several IO-Link communication interfaces for interoperability with IO-Link devices.

The IO-Link interface enables direct access to the process and diagnostic data and allows the parameters of the connected devices to be set during operation.

The IODD can also be downloaded via IODDfinder (<https://ioddfinder.io-link.com>).

Data

Technical data

Fieldbus

Communications	EtherNet/ ⁱ PTM BOOTP, DHCP, DLR
Connection technology: communication/fieldbus	2 x D-coded M12; 4-pole
Interface standard	10BASE-T/100BASE-TX; potential-free
Autonegotiation; autocrossover	yes

Device functions

Parameter	Input filter Output current Temperature
Diagnostics	Undervoltage; Overcurrent; Overload; Overtemperature
Device functions	Bluetooth® OPC UA server
Visualization	Android/iOS app Web server

IO-Link master

IO-Link master classification	Class A; V1.1 specification
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Subject to changes. Please also observe the further product documentation!



Port-Modus	IO-Link: autoconfig, manual, tool-based DI DO
Cycle time	400 µs (min.)
Operating mode	IO-Link master, DI or DO (adjustable for pin 4 per port); DI or DO (adjustable for pin 2 per port)

IO-Link ports

Number of digital inputs	16
Number of digital outputs	16
Connection technology: inputs/outputs	8 x A-coded M12; 5-pole
Signal type (voltage)	24 VDC
Input characteristic	High-side switching
Input filter	0.2 ... 20 ms
Input characteristic	Type 3, per IEC 61131-2
Output current (per channel)	2 A (typ.) for DO
Supply current per port	1L: 1 A for IO-Link; 4 A (max.) for DIO

Supply (module)

Connection technology: supply	2 x L-coded M12; 5-pole
Supply voltage	24 VDC (18 ... 31.2 V); 1L
Current consumption (max.)	16000 mA
Current consumption (note)	per supply line; overload- and short-circuit-protected
Reverse voltage protection	Yes

Physical data

Width	60 mm / 2.362 inches
Height	30 mm / 1.181 inches
Depth	210 mm / 8.268 inches

Mechanical data

Weight	610 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +80 °C

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Protection type	IP67
Protection class	III per EN 61140, IEC 61140, VDE 0140-1
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Pollution degree	3 (EN 60664-1)
Overvoltage category	II (EN 60664-1)
Relative humidity (without condensation)	95 %
Vibration resistance	5g per IEC 60068-2-6
Shock resistance	Short-term: 50g/11 ms/half-sine per IEC 60068-2-27; Long-term: 30g/6 ms/half-sine per IEC 60068-2-29
EMC immunity to interference	per EN 61000-6-2
EMC emission of interference	per EN 61000-6-4

Commercial data

ETIM 9.0	EC001601
ETIM 8.0	EC001601
Recupel Type	
ECCN	NO DATA
PU (SPU)	1 pcs
Country of origin	DE
GTIN	4066966063189
Customs tariff number	85371098990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
	KC National Radio Research Agency	Article 58-2, Clause 3	KC R-R- W43- FB765
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	-	E175199

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Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Required accessories

Tool

	Assembly tool		
	Item no.: 206-701 Torque wrench M8 and M12; Assembly kit		www.wago.com/206-701

Marking accessories

	Marking strip		
	Item no.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white		www.wago.com/2009-110

Marker

	Item no.: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white		www.wago.com/2009-115
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Cover

	Cover		
	Item no.: 756-8102 M12 protective cap; for unused sockets		www.wago.com/756-8102
	Item no.: 756-8103 M12 protective cap; for unused plugs		www.wago.com/756-8103

Optional accessories

Cables and pluggable connectors

	Configurable Connector		
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Subject to changes. Please also observe the further product documentation!

**Item no.: 756-9202/040-000**

Fitted pluggable connector; 4-pole; M12 plug, straight, A-coded; Spring

www.wago.com/756-9202/040-000**Item no.: 756-9205/040-000**

Fitted pluggable connector; 4-pole; M12 plug, right angle; Spring

www.wago.com/756-9205/040-000**Item no.: 756-9711/050-000**

Fitted pluggable connector; 5-pole, shielded; M12 socket, straight; IDC technology

www.wago.com/756-9711/050-000**Item no.: 756-9701/050-000**

Fitted pluggable connector; 5-pole, shielded; M12 plug, straight; IDC technology

www.wago.com/756-9701/050-000

Sensor/actuator cable

**Item no.: 756-5402/040-010**

Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 4-pole; Length: 1 m

www.wago.com/756-5402/040-010**Item no.: 756-5402/040-020**

Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 4-pole; Length: 2 m

www.wago.com/756-5402/040-020**Item no.: 756-5311/040-050**

Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 5 m

www.wago.com/756-5311/040-050**Item no.: 756-5311/040-015**

Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 1.5 m

www.wago.com/756-5311/040-015**Item no.: 756-5311/040-100**

Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 10 m

www.wago.com/756-5311/040-100**Item no.: 756-5404/040-020**

Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 4-pole; Length: 2 m

www.wago.com/756-5404/040-020**Item no.: 756-5510/040-010**

Sensor/Actuator cable; M8 socket; angled; M12A plug; angled; 4-pole; Length: 1 m

www.wago.com/756-5510/040-010**Item no.: 756-5510/040-020**

Sensor/Actuator cable; M8 socket; angled; M12A plug; angled; 4-pole; Length: 2 m

www.wago.com/756-5510/040-020

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**Item no.: 756-5401/040-020**

Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 4-pole; Length: 2 m

www.wago.com/756-5401/040-020**Item no.: 756-5401/040-010**

Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 4-pole; Length: 1 m

www.wago.com/756-5401/040-010**Item no.: 756-5507/040-010**

Sensor/Actuator cable; M8 socket; straight; M12A plug; straight; 4-pole; Length: 1 m

www.wago.com/756-5507/040-010**Item no.: 756-5507/040-020**

Sensor/Actuator cable; M8 socket; straight; M12A plug; straight; 4-pole; Length: 2 m

www.wago.com/756-5507/040-020**Item no.: 756-5404/040-010**

Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 4-pole; Length: 1 m

www.wago.com/756-5404/040-010**Item no.: 756-5312/040-015**

Sensor/Actuator cable; M12A plug; angled; 4-pole; Length: 1.5 m

www.wago.com/756-5312/040-015**Item no.: 756-5312/040-050**

Sensor/Actuator cable; M12A plug; angled; 4-pole; Length: 5 m

www.wago.com/756-5312/040-050**Item no.: 756-5509/040-010**

Sensor/Actuator cable; M8 socket; angled; M12A plug; straight; 4-pole; Length: 1 m

www.wago.com/756-5509/040-010**Item no.: 756-5509/040-020**

Sensor/Actuator cable; M8 socket; angled; M12A plug; straight; 4-pole; Length: 2 m

www.wago.com/756-5509/040-020**Item no.: 756-5403/040-010**

Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 4-pole; Length: 1 m

www.wago.com/756-5403/040-010**Item no.: 756-5312/040-100**

Sensor/Actuator cable; M12A plug; angled; 4-pole; Length: 10 m

www.wago.com/756-5312/040-100**Item no.: 756-5403/040-020**

Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 4-pole; Length: 2 m

www.wago.com/756-5403/040-020**Item no.: 756-5508/040-010**

Sensor/Actuator cable; M8 socket; straight; M12A plug; angled; 4-pole; Length: 1 m

www.wago.com/756-5508/040-010

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**Item no.: 756-5508/040-020**

Sensor/Actuator cable; M8 socket; straight; M12A plug; angled; 4-pole; Length: 2 m

www.wago.com/756-5508/040-020

Power cable

**Item no.: 756-3501/050-075**

Power cable; M12L socket; straight; 5-pole; Length: 7.5 m

www.wago.com/756-3501/050-075**Item no.: 756-3501/050-100**

Power cable; M12L socket; straight; 5-pole; Length: 10 m

www.wago.com/756-3501/050-100**Item no.: 756-3501/050-150**

Power cable; M12L socket; straight; 5-pole; Length: 15 m

www.wago.com/756-3501/050-150**Item no.: 756-3501/050-050**

Power cable; M12L socket; straight; 5-pole; Length: 5 m

www.wago.com/756-3501/050-050**Item no.: 756-3502/050-050**

Power cable; M12L socket; angled; 5-pole; Length: 5 m

www.wago.com/756-3502/050-050**Item no.: 756-3502/050-150**

Power cable; M12L socket; angled; 5-pole; Length: 15 m

www.wago.com/756-3502/050-150**Item no.: 756-3502/050-075**

Power cable; M12L socket; angled; 5-pole; Length: 7.5 m

www.wago.com/756-3502/050-075**Item no.: 756-3502/050-100**

Power cable; M12L socket; angled; 5-pole; Length: 10 m

www.wago.com/756-3502/050-100**Item no.: 756-3503/050-075**

Power cable; M12L plug; straight; 5-pole; Length: 7.5 m

www.wago.com/756-3503/050-075**Item no.: 756-3503/050-150**

Power cable; M12L plug; straight; 5-pole; Length: 15 m

www.wago.com/756-3503/050-150**Item no.: 756-3503/050-100**

Power cable; M12L plug; straight; 5-pole; Length: 10 m

www.wago.com/756-3503/050-100

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**Item no.: 756-3505/050-003**

Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 0.3 m

www.wago.com/756-3505/050-003**Item no.: 756-3505/050-005**

Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 0.5 m

www.wago.com/756-3505/050-005**Item no.: 756-3505/050-020**

Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 2 m

www.wago.com/756-3505/050-020**Item no.: 756-3505/050-010**

Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 1 m

www.wago.com/756-3505/050-010**Item no.: 756-3505/050-050**

Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 5 m

www.wago.com/756-3505/050-050**Item no.: 756-3505/050-075**

Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 7.5 m

www.wago.com/756-3505/050-075**Item no.: 756-3505/050-100**

Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 10 m

www.wago.com/756-3505/050-100**Item no.: 756-3506/050-100**

Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 10 m

www.wago.com/756-3506/050-100**Item no.: 756-3506/050-075**

Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 7.5 m

www.wago.com/756-3506/050-075**Item no.: 756-3506/050-150**

Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 15 m

www.wago.com/756-3506/050-150**Item no.: 756-3501/050-020**

Power cable; M12L socket; straight; 5-pole; Length: 2 m

www.wago.com/756-3501/050-020**Item no.: 756-3502/050-020**

Power cable; M12L socket; angled; 5-pole; Length: 2 m

www.wago.com/756-3502/050-020**Item no.: 756-3503/050-020**

Power cable; M12L plug; straight; 5-pole; Length: 2 m

www.wago.com/756-3503/050-020

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Item no.: 756-3503/050-050

Power cable; M12L plug; straight; 5-pole; Length: 5 m

www.wago.com/756-3503/050-050



Item no.: 756-3504/050-020

Power cable; M12L plug; angled; 5-pole; Length: 2 m

www.wago.com/756-3504/050-020



Item no.: 756-3504/050-050

Power cable; M12L plug; angled; 5-pole; Length: 5 m

www.wago.com/756-3504/050-050



Item no.: 756-3504/050-075

Power cable; M12L plug; angled; 5-pole; Length: 7.5 m

www.wago.com/756-3504/050-075



Item no.: 756-3504/050-100

Power cable; M12L plug; angled; 5-pole; Length: 10 m

www.wago.com/756-3504/050-100



Item no.: 756-3504/050-150

Power cable; M12L plug; angled; 5-pole; Length: 15 m

www.wago.com/756-3504/050-150



Item no.: 756-3505/050-150

Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 15 m

www.wago.com/756-3505/050-150



Item no.: 756-3506/050-003

Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 0.3 m

www.wago.com/756-3506/050-003



Item no.: 756-3506/050-005

Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 0.5 m

www.wago.com/756-3506/050-005



Item no.: 756-3506/050-020

Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 2 m

www.wago.com/756-3506/050-020



Item no.: 756-3506/050-010

Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 1 m

www.wago.com/756-3506/050-010



Item no.: 756-3506/050-050

Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 5 m

www.wago.com/756-3506/050-050

Distribution connector

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**Item no.: 756-5513/040-010**

Sensor/Actuator cable; 2xM8 socket; straight; M12A plug; straight; 4-pole; Length: 1 m

www.wago.com/756-5513/040-010**Item no.: 756-5513/040-020**

Sensor/Actuator cable; 2xM8 socket; straight; M12A plug; straight; 4-pole; Length: 2 m

www.wago.com/756-5513/040-020**Item no.: 756-5514/040-010**

Sensor/Actuator cable; 2xM8 socket; angled; M12A plug; straight; 4-pole; Length: 1 m

www.wago.com/756-5514/040-010**Item no.: 756-5514/040-020**

Sensor/Actuator cable; 2xM8 socket; angled; M12A plug; straight; 4-pole; Length: 2 m

www.wago.com/756-5514/040-020**Item no.: 756-5516/040-010**

Sensor/Actuator cable; 2xM12 socket; straight; M12A plug; straight; 4-pole; Length: 1 m

www.wago.com/756-5516/040-010**Item no.: 756-5516/040-020**

Sensor/Actuator cable; 2xM12 socket; straight; M12A plug; straight; 4-pole; Length: 2 m

www.wago.com/756-5516/040-020**Item no.: 756-5517/040-010**

Sensor/Actuator cable; 2xM12 socket; angled; M12A plug; straight; 4-pole; Length: 1 m

www.wago.com/756-5517/040-010**Item no.: 756-5517/040-020**

Sensor/Actuator cable; 2xM12 socket; angled; M12A plug; straight; 4-pole; Length: 2 m

www.wago.com/756-5517/040-020**Item no.: 756-9301/050-000**

Accessories; 5-pole

www.wago.com/756-9301/050-000**Item no.: 756-9301/040-000**

Accessories; 4-pole

www.wago.com/756-9301/040-000

Configurable Shielded Connector

**Item no.: 756-9501/060-000**

Fitted pluggable connector; 4-pole, shielded; M12 plug, straight, D-coded; Spring

www.wago.com/756-9501/060-000**Item no.: 756-9501/040-000**

Accessories; M12 plug, right angle; 4-pole

www.wago.com/756-9501/040-000

ETHERNET/PROFINET cable

Subject to changes. Please also observe the further product documentation!



Item no.: 756-1202/060-200
ETHERNET cable; M12D plug; angled; 4-pole; Length: 20 m

www.wago.com/756-1202/060-200



Item no.: 756-1201/060-100
ETHERNET cable; M12D plug; straight; 4-pole; Length: 10 m

www.wago.com/756-1201/060-100



Item no.: 756-1201/060-050
ETHERNET cable; M12D plug; straight; 4-pole; Length: 5 m

www.wago.com/756-1201/060-050



Item no.: 756-1203/060-050
ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 5 m

www.wago.com/756-1203/060-050



Item no.: 756-1203/060-020
ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 2 m

www.wago.com/756-1203/060-020



Item no.: 756-1202/060-020
ETHERNET cable; M12D plug; angled; 4-pole; Length: 2 m

www.wago.com/756-1202/060-020



Item no.: 756-1201/060-200
ETHERNET cable; M12D plug; straight; 4-pole; Length: 20 m

www.wago.com/756-1201/060-200



Item no.: 756-1204/060-050
ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 5 m

www.wago.com/756-1204/060-050



Item no.: 756-1204/060-100
ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 10 m

www.wago.com/756-1204/060-100



Item no.: 756-1204/060-200
ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 20 m

www.wago.com/756-1204/060-200



Item no.: 756-1203/060-200
ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 20 m

www.wago.com/756-1203/060-200



Item no.: 756-1203/060-100
ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 10 m

www.wago.com/756-1203/060-100



Item no.: 756-1204/060-010
ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 1 m

www.wago.com/756-1204/060-010

Subject to changes. Please also observe the further product documentation!



Item no.: 756-1204/060-030
ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 3 m

www.wago.com/756-1204/060-030



Item no.: 756-1204/060-020
ETHERNET cable; M12D plug; angled; M12D plug; angled; 4-pole; Length: 2 m

www.wago.com/756-1204/060-020



Item no.: 756-1202/060-050
ETHERNET cable; M12D plug; angled; 4-pole; Length: 5 m

www.wago.com/756-1202/060-050



Item no.: 756-1202/060-100
ETHERNET cable; M12D plug; angled; 4-pole; Length: 10 m

www.wago.com/756-1202/060-100



Item no.: 756-1201/060-020
ETHERNET cable; M12D plug; straight; 4-pole; Length: 2 m

www.wago.com/756-1201/060-020

Downloads Documentation

Manual

Product Manual 8-Port IO-Link Master Class A; EtherNet/IP DC 24 V / 2.0 A; 8xM12 Connection; WideLine	V 2.0.0 Jul 19, 2022	pdf 9.6 MB	Download
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Instruction Leaflet

I/O System Field package insert	Dec 15, 2021	pdf 1.1 MB	Download
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System Description

WAGO I/O System Field; General Product Information		pdf 1.0 MB	Download
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Engineering-Software

Desktop Application

WAGO IO-Link Configurator	URL	Download
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WAGO IO-Link Configurator allows configuration, parameterization, operation and monitoring of WAGO IO-Link Masters in the WAGO I/O System 750 and WAGO I/O System Field, and especially of the WAGO IO-Link devices connected to them.

Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Additionally, WAGO IO-Link Configurator can be used for complete configuration and operation of all IO-Link devices of third-party manufacturers, as long as they comply with the IO-Link specification. A product's process data can be visualized graphically and stored in trend curves. Up to eight elements can be selected for visualization, and the data can be recorded for up to 24 hours.

Device description files for the IO-Link Masters (IOLM) or IO-Link Devices (IODD) can be used to integrate new devices into the tool at any time. Convenient access to the IO-Link user organization's IODDfinder is available for the IODDs. This allows automated, selective download of IODDs when integrating new IO-Link devices. An integrated IODD viewer allows detailed insight into the IODD device description.

WAGO IO-Link Configurator can be used either as a standalone program or integrated into engineering systems with a TCI interface and *WAGO-I/O-CHECK*.

IO-Link Configurator can also be used to integrate the IO-Link Master (750-657) of the WAGO I/O System 750 Series and to access all the configurator's functions. This is made possible by the WAGO I/O System 750 IO-Link Adapter, which can be retrofitted. The WAGO I/O System 750 IO-Link Adapter requires the current version of WAGO IO-Link Configurator and a current version of *WAGO-I/O-CHECK*.

In addition, the download file contains the device descriptions for the respective fieldbus systems of the WAGO I/O System Field modules. These are pre-installed in the Configurator setup.

The WAGO IO-Link Configurator license is assigned to the specific PC on which it is installed (a workstation license).

Register now and test our engineering software for 30 days at no cost.

Runtime Software

Firmware

0765-x5xx, Ethernet/IP IO-Field	V 04	zip	Download
WAGO_FW0765-x5xx_V01010021_IX04	Feb 2, 2023	1.6 MB	

CAD/CAE-Data

CAD data

2D/3D Models 765-4501/100-000	URL	Download
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CAE data

EPLAN Data Portal 765-4501/100-000	URL	Download
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Asset Administration Shell

Asset Administration Shell 765-4501/100-000	URL	Download
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Device Files

Device Description File

750-915- FDS-Dataien for EthernetIP / Serie 750 765 and 767

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765-45xx, EDS, Daten für EtherNet/IP, 765-15xx, 765-15xx und 765-15xx	12 Jul 9, 2021	zip 168.4 kB	Download
Gerätebeschreibungsdateien 765-45xx, 765-15xx, EtherNet/IP	V1_1_0_22	zip 75.8 kB	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 765-4501/100-000	URL	Download
8-Port IO-Link Master Class A; EtherNet/IP; DC 24 V / 2.0 A; 8xM12 connection; WideLine		

Installation Notes

Product family

WAGO I/O System Field
[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!