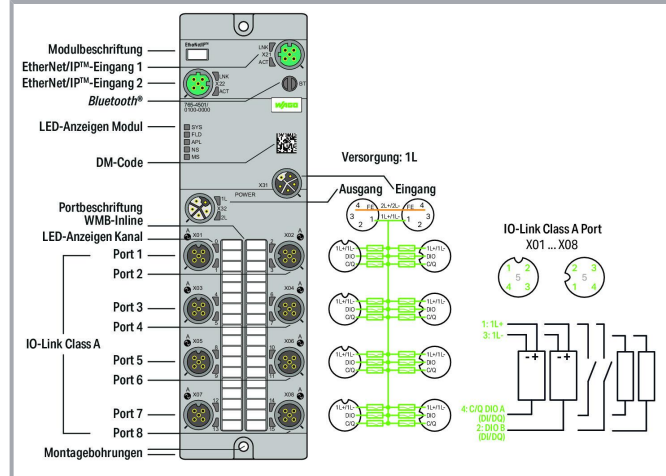


Data sheet | Item number: 765-4501/100-000

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

Einsatzbereich:

Dezentrale Verarbeitung von Digitalen- und IO-Link-Signalen

Das Gerät dient zur Ansteuerung von IO-Link-fähigen digitalen Feldgeräten (z.B. Aktoren und Hubs) und zur Erfassung von digitalen Signalen aus IO-Link-fähigen Feldgeräten (z.B. Sensoren und Hubs), die von einer übergeordneten Steuerung gesendet bzw. empfangen werden. Das Gerät ist als Class-A-Master ausgelegt, und bietet 8 IO-Link Ports bzw. 16 digitale Ein-/ Ausgänge.

IO-Link:

Das Gerät verfügt über mehrere IO-Link-Kommunikationsschnittstellen für die Zusammenarbeit mit IO-Link Devices.

Die IO-Link-Schnittstelle ermöglicht den direkten Zugriff auf die Prozess- und Diagnosedaten und bietet die Möglichkeit, die Parameter der angeschlossenen Geräte während des Betriebs einzustellen.

Die IODD kann auch über den IODDfinder <https://ioddfinder.io-link.com> heruntergeladen werden.

Data

Technical data

Fieldbus

Communication	EtherNet/IP™ 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	Web server Android/iOS app Webserver

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 mode	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 8.0	EC001601
ETIM 7.0	EC001601
Recupel Type	
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
	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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Required accessories

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

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

Tool

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

Optional accessories

Cables and pluggable connectors

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

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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



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

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



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



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

Configurable connector



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

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

Power cable

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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



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

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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



Item no.: 756-3503/050-050

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

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

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**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

**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

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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

ETHERNET/PROFINET cable



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

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	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
	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

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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 2022 Jul 19	pdf 9.6 MB	Download
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Instruction Leaflet

I/O System Field package insert	2021 Dec 15	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.

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.

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



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	2023 Feb 2	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; EDS-Dateien for EthernetIP / Serie 750, 765 and 767	12 2021 Jul 9	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
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Subject to changes. Please also observe the further product documentation!



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!

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