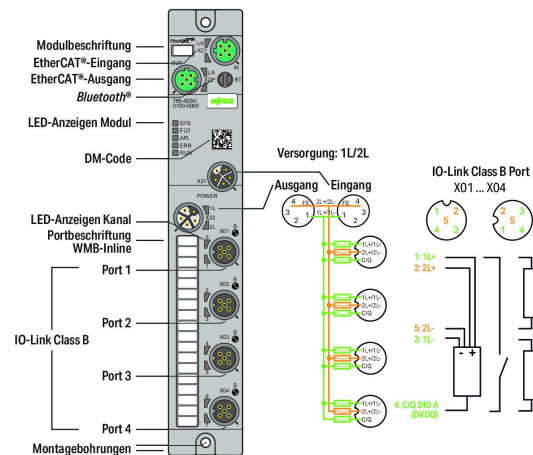


Data sheet | Item number: 765-4204/100-000

4-Port IO-Link Master Class B; EtherCAT; DC 24 V / 2.0 A; 4xM12 connection; SlimLine

www.wago.com/765-4204/100-000



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

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Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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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 B master and offers 4 IO-Link ports or 4 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	EtherCAT® AoE, EoE, FoE
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 B; 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); Supply voltage 2L (fixed for pin 2 per port)

IO-Link ports

Number of digital inputs	4
Number of digital outputs	4
Connection technology: inputs/outputs	4 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 (Pin 1): 1 A for IO-Link; 4 A (max.) for DIO; 2L (Pin 2): 4 A (max.)

Supply (module)

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

Physical data

Width	35 mm / 1.378 inches
Height	30 mm / 1.181 inches
Depth	210 mm / 8.268 inches

Mechanical data

Weight	380 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	4066966063172
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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Required accessories

Tool

Assembly tool



Item no.: 206-701

Torque wrench M8 and M12; Assembly kit

www.wago.com/206-701

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

Optional accessories

Cables and pluggable connectors

Configurable Connector



Item no.: 756-9202/050-000

Fitted pluggable connector; 5-pole; M12 plug, straight, A-coded; Spring

www.wago.com/756-9202/050-000



Item no.: 756-9205/050-000

Fitted pluggable connector; 5-pole; M12 plug, right angle; Spring

www.wago.com/756-9205/050-000

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

**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.: 756-5402/050-010**

Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 5-pole; Length: 1 m

www.wago.com/756-5402/050-010**Item no.: 756-5311/050-015**

Sensor/Actuator cable; M12A plug; straight; 5-pole; Length: 1.5 m

www.wago.com/756-5311/050-015**Item no.: 756-5404/050-020**

Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 5-pole; Length: 2 m

www.wago.com/756-5404/050-020**Item no.: 756-5404/050-010**

Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 5-pole; Length: 1 m

www.wago.com/756-5404/050-010**Item no.: 756-5402/050-020**

Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 5-pole; Length: 2 m

www.wago.com/756-5402/050-020**Item no.: 756-5312/050-015**

Sensor/Actuator cable; M12A plug; angled; 5-pole; Length: 1.5 m

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

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

www.wago.com/756-5312/050-050**Item no.: 756-5312/050-100**

Sensor/Actuator cable; M12A plug; angled; 5-pole; Length: 10 m

www.wago.com/756-5312/050-100**Item no.: 756-5403/050-020**

Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 5-pole; Length: 2 m

www.wago.com/756-5403/050-020**Item no.: 756-5403/050-010**

Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 5-pole; Length: 1 m

www.wago.com/756-5403/050-010

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Item no.: 756-5311/050-100
Sensor/Actuator cable; M12A plug; straight; 5-pole; Length: 10 m

www.wago.com/756-5311/050-100



Item no.: 756-5311/050-050
Sensor/Actuator cable; M12A plug; straight; 5-pole; Length: 5 m

www.wago.com/756-5311/050-050



Item no.: 756-5401/050-010
Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 5-pole; Length: 1 m

www.wago.com/756-5401/050-010



Item no.: 756-5401/050-020
Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 5-pole; Length: 2 m

www.wago.com/756-5401/050-020

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

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



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



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

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

	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
	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

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

**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.: 756-9301/050-000**

Accessories; 5-pole

www.wago.com/756-9301/050-000

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

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**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

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Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

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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



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

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

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



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 4-Port-IO Link Master Class B; EtherCAT; 24 VDC / 2.0 A; 4xM12 Connection; SlimLine	V 2.0.0 Jul 19, 2022	pdf 8.3 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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Application Notes

Application Note e!COCKPIT

e!COCKPIT Application Note EtherCAT IO-Field (a2022003)	1.0.0	pptx 2.2 MB	Download
WAGO EtherCAT Master, EoE access with IO-Field devices	Mar 23, 2023		

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.

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



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-x2xx, EtherCat IO-Field	V 04	zip	Download
WAGO_FW0765-x2xx_V01010021_IX04	Feb 2, 2023	1.6 MB	

CAD/CAE-Data

CAD data

2D/3D Models 765-4204/100-000	URL	Download
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CAE data

EPLAN Data Portal 765-4204/100-000	URL	Download
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Asset Administration Shell

Asset Administration Shell 765-4204/100-000	URL	Download
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Device Files

Device Description File

Gerätebeschreibungsdateien 765-42xx, 765-12xx, EtherCAT	V1_1_0_22	zip 77.6 kB	Download
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Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 765-4204/100-000	URL	Download
4-Port IO-Link Master Class B; EtherCAT; DC 24 V / 2.0 A; 4xM12 connection; SlimLine		

Installation Notes

Product family

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

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