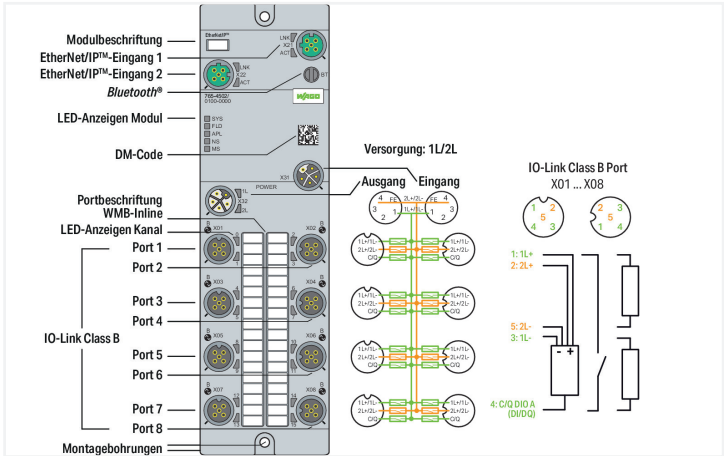




Application:
Decentralized processing of digital and IO-Link signals

The 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 8 IO-Link ports or 8 digital inputs/outputs.

IO-Link:
The device has several IO-Link communication interfaces for interoperation 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 <https://ioddfinder.io-link.com> downloaded via the IODDfinder.

Technical data			
Fieldbus		Device functions	
Communications	EtherNet/IP™ BOOTP, DHCP, DLR	Parameter	Input filter Output current Temperature
Connection technology: communication/ fieldbus	2 x D-coded M12; 4-pole	Diagnostics	Undervoltage; overcurrent; overload; overtemperature
Interface standard	10BASE-T/100BASE-TX; potential-free	Device functions	Bluetooth® OPC UA server
Autonegotiation; autocrossover	Yes		



Device functions	
Radio technology	<i>Bluetooth®</i> : This module has an RF transmitter with the following specifications: Operating frequency: 2402 ... 2480 MHz; Maximum RF output power: <20 mW
Visualization	Android/iOS app Web server

IO-Link master	
IO-Link master classification	Class B; V1.1 specification
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	8
Number of digital outputs	8
Connection technology: I/O	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 (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	60 mm / 2.362 inches
Height	30 mm / 1.181 inches
Depth	210 mm / 8.268 inches

Material data	
Fire load	0 MJ
Weight	610 g
Conformity marking	CE

Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +80 °C
Protection type	IP67
Protection class	III per EN 61140, IEC 61140, VDE 0140-1
Pollution degree	3 (EN 60664-1)
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
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		
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		DE
GTIN		4066966063202
Customs tariff number		85371098990

Product Classification		
UNSPSC		32151705
ETIM 9.0		EC001601
ETIM 10.0		EC001601
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant,No Exemption

Approvals / Certificates

General approvals



Approval	Standard	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

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 765-4502/100-000	

Documentation

Manual			
Cybersecurity Manual WAGO I/O System Field	4446174731 3 en-US 2025-08-04 12:00 13.08.2025	pdf 491.44 KB	
Product Manual 8-Port IO-Link Master Class B; EtherNet/IP	V 2.0.0 19.07.2022	pdf 9368.22 KB	

System Description			
WAGO I/O System Field; General Product Information		pdf 1009.23 KB	



Instruction Leaflet			
I/O System Field packa- ge insert	V 1.4.0 25.07.2025	pdf 1083.98 KB	

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 765-4502/100-000	EPLAN Data Portal 765-4502/100-000

Runtime Software			
Firmware			
0765-x5xx, Ethernet/IP IO-Field	V 04 02.02.2023	zip 1546.91 KB	

Libraries			
Device Description File			
750-915; EDS-Dateien for EthernetIP / Serie 750, 765 and 767	12 09.07.2021	zip 164.42 KB	
Gerätebeschreibungs- dateien 765-45xx, 765-15xx, EtherNet/IP	V1_1_0_22	zip 74.02 KB	

1 Compatible Products
1.1 Required Accessories
1.1.1 Cover
1.1.1.1 Cover



Item No.: 756-8103 M12 protective cap; for unused plugs	Item No.: 756-8102 M12 protective cap; for unused sockets
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1.1.2 Marking
1.1.2.1 Marker



Item No.: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap- on type; white



1.1.2.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel;
not stretchable; plain; snap-on type; white

1.1.3 Tool

1.1.3.1 Assembly tool



Item No.: 206-701
Torque wrench M8 and M12; Assembly kit

1.2 Optional Accessories

1.2.1 Cables and connectors

1.2.1.1 Configurable Connector



Item No.: 756-9701/050-000
Fitted pluggable connector; 5-pole, shielded; M12 plug, straight; IDC technology



Item No.: 756-9711/050-000
Fitted pluggable connector; 5-pole, shielded; M12 socket, straight; IDC technology



Item No.: 756-9205/050-000
Fitted pluggable connector; 5-pole; M12 plug, right angle; Spring



Item No.: 756-9202/050-000
Fitted pluggable connector; 5-pole; M12 plug, straight, A-coded; Spring

1.2.1.2 Configurable Shielded Connector



Item No.: 756-9501/040-000
Accessories; M12 plug, right angle; 4-pole



Item No.: 756-9501/060-000
Fitted pluggable connector; 4-pole, shielded; M12 plug, straight, D-coded; Spring

1.2.1.3 Distribution connector



Item No.: 756-9301/050-000
Accessories; 5-pole

1.2.1.4 ETHERNET/PROFINET cable



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



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



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



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



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



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



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



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



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



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



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



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

1.2.1.4 ETHERNET/PROFINET cable



Item No.: 756-1201/060-200

ETHERNET cable; M12D plug; straight; 4-pole; Length: 20 m



Item No.: 756-1201/060-050

ETHERNET cable; M12D plug; straight; 4-pole; Length: 5 m



Item No.: 756-1203/060-100

ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 10 m



Item No.: 756-1203/060-020

ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 2 m



Item No.: 756-1203/060-200

ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 20 m



Item No.: 756-1203/060-050

ETHERNET cable; M12D plug; straight; M12D plug; straight; 4-pole; Length: 5 m

1.2.1.5 Power cable



Item No.: 756-3504/050-100

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



Item No.: 756-3514/050-100

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



Item No.: 756-3504/050-150

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



Item No.: 756-3514/050-150

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



Item No.: 756-3504/050-020

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



Item No.: 756-3504/050-050

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



Item No.: 756-3514/050-050

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



Item No.: 756-3504/050-075

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



Item No.: 756-3514/050-075

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



Item No.: 756-3503/050-100

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



Item No.: 756-3513/050-100

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



Item No.: 756-3503/050-150

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



Item No.: 756-3513/050-150

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



Item No.: 756-3503/050-020

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



Item No.: 756-3513/050-020

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



Item No.: 756-3503/050-050

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



Item No.: 756-3513/050-050

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



Item No.: 756-3503/050-075

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



Item No.: 756-3513/050-075

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



Item No.: 756-3502/050-100

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



Item No.: 756-3512/050-100

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



Item No.: 756-3502/050-150

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



Item No.: 756-3512/050-150

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



Item No.: 756-3502/050-020

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



Item No.: 756-3512/050-020

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



Item No.: 756-3502/050-050

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



Item No.: 756-3512/050-050

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



Item No.: 756-3502/050-075

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



Item No.: 756-3512/050-075

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



Item No.: 756-3506/050-003

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



Item No.: 756-3506/050-005

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



Item No.: 756-3516/050-005

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



Item No.: 756-3506/050-010

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



Item No.: 756-3516/050-010

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



Item No.: 756-3506/050-100

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



Item No.: 756-3516/050-100

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



Item No.: 756-3506/050-150

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



Item No.: 756-3506/050-020

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



Item No.: 756-3516/050-020

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



Item No.: 756-3516/050-200

Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 20 m



1.2.1.5 Power cable

 Item No.: 756-3516/050-400 Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 40 m	 Item No.: 756-3506/050-050 Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 5 m	 Item No.: 756-3516/050-050 Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 5 m	 Item No.: 756-3506/050-075 Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 7.5 m
 Item No.: 756-3516/050-075 Power cable; M12L socket; angled; M12L plug; angled; 5-pole; Length: 7.5 m	 Item No.: 756-3501/050-100 Power cable; M12L socket; straight; 5-pole; Length: 10 m	 Item No.: 756-3511/050-100 Power cable; M12L socket; straight; 5-pole; Length: 10 m	 Item No.: 756-3501/050-150 Power cable; M12L socket; straight; 5-pole; Length: 15 m
 Item No.: 756-3511/050-150 Power cable; M12L socket; straight; 5-pole; Length: 15 m	 Item No.: 756-3501/050-020 Power cable; M12L socket; straight; 5-pole; Length: 2 m	 Item No.: 756-3511/050-020 Power cable; M12L socket; straight; 5-pole; Length: 2 m	 Item No.: 756-3501/050-050 Power cable; M12L socket; straight; 5-pole; Length: 5 m
 Item No.: 756-3511/050-050 Power cable; M12L socket; straight; 5-pole; Length: 5 m	 Item No.: 756-3501/050-075 Power cable; M12L socket; straight; 5-pole; Length: 7.5 m	 Item No.: 756-3511/050-075 Power cable; M12L socket; straight; 5-pole; Length: 7.5 m	 Item No.: 756-3505/050-003 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 0.3 m
 Item No.: 756-3505/050-005 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 0.5 m	 Item No.: 756-3515/050-005 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 0.5 m	 Item No.: 756-3505/050-010 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 1 m	 Item No.: 756-3515/050-010 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 1 m
 Item No.: 756-3505/050-100 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 10 m	 Item No.: 756-3515/050-100 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 10 m	 Item No.: 756-3505/050-150 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 15 m	 Item No.: 756-3505/050-020 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 2 m
 Item No.: 756-3515/050-020 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 2 m	 Item No.: 756-3515/050-200 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 20 m	 Item No.: 756-3515/050-300 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 30 m	 Item No.: 756-3515/050-400 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 40 m
 Item No.: 756-3505/050-050 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 5 m	 Item No.: 756-3515/050-050 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 5 m	 Item No.: 756-3505/050-075 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 7.5 m	 Item No.: 756-3515/050-075 Power cable; M12L socket; straight; M12L plug; straight; 5-pole; Length: 7.5 m

1.2.1.6 Sensor/actuator cable

 Item No.: 756-5312/050-015 Sensor/Actuator cable; M12A plug; angled; 5-pole; Length: 1.5 m	 Item No.: 756-5312/050-100 Sensor/Actuator cable; M12A plug; angled; 5-pole; Length: 10 m	 Item No.: 756-5312/050-050 Sensor/Actuator cable; M12A plug; angled; 5-pole; Length: 5 m	 Item No.: 756-5311/050-015 Sensor/Actuator cable; M12A plug; straight; 5-pole; Length: 1.5 m
 Item No.: 756-5311/050-100 Sensor/Actuator cable; M12A plug; straight; 5-pole; Length: 10 m	 Item No.: 756-5311/050-050 Sensor/Actuator cable; M12A plug; straight; 5-pole; Length: 5 m	 Item No.: 756-5404/050-010 Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 5-pole; Length: 1 m	 Item No.: 756-5404/050-020 Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 5-pole; Length: 2 m
 Item No.: 756-5403/050-010 Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 5-pole; Length: 1 m	 Item No.: 756-5403/050-020 Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 5-pole; Length: 2 m	 Item No.: 756-5402/050-010 Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 5-pole; Length: 1 m	 Item No.: 756-5402/050-020 Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 5-pole; Length: 2 m
 Item No.: 756-5401/050-010 Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 5-pole; Length: 1 m	 Item No.: 756-5401/050-020 Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 5-pole; Length: 2 m		

