Data Sheet | Item Number: 765-1502/100-000
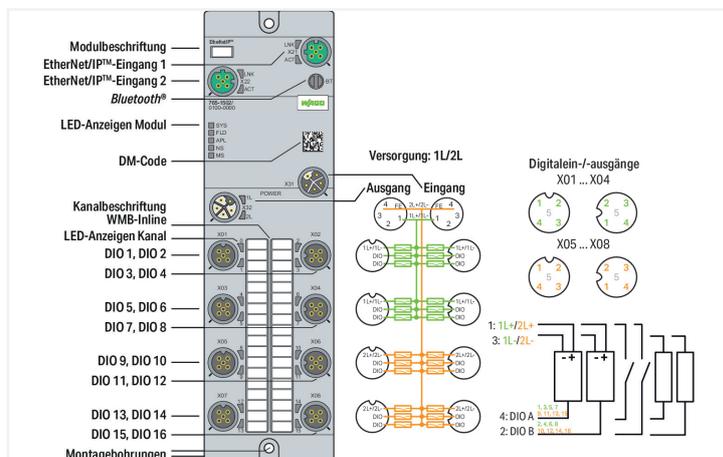
16-channel digital input/output; EtherNet/IP; DC 24 V / 2.0 A; 8xM12 connection; WideLine

https://www.wago.com/765-1502/100-000

Application:

Decentralized processing of digital signals

The device controls digital field devices (e.g., actuators) and records digital signals (e.g., sensors) that are sent or received by a higher-level controller.

The device offers 16 digital inputs/outputs.

Technical data

Fieldbus

Communications	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	Android/iOS app
	Web server

Digital inputs/outputs

Number of digital inputs	16
Number of digital outputs	16
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/2L: 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 ℃
Ambient temperature (storage)	-40 … +80 ℃
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	4066966063080
Customs tariff number	85371098990

Product Classification

UNSPSC	32151705
ETIM 9.0	EC001599
ETIM 8.0	EC001599
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 765-1502/100-000	↓

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 16-Channel Digital Input/Output; EtherNet/IP	V 2.0.0 19.07.2022	pdf 7844.18 KB	↓

System Description

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

WAGO

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models
765-1502/100-000	↓	EPLAN Data Portal
765-1502/100-000	↓

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

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 Adapter

Item No.: 756-9503/040-000
Accessories; 4-pole

Item No.: 756-9504/040-000
Accessories; 4-pole

1.2.1.2 Configurable Connector

Item No.: 756-9205/040-000
Fitted pluggable connector; 4-pole; M12 plug, right angle; Spring

Item No.: 756-9202/040-000
Fitted pluggable connector; 4-pole; M12 plug, straight, A-coded; Spring

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

1.2.1.3 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

1.2.1.4 Distribution connector

Item No.: 756-9301/040-000
Accessories; 4-pole

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

Item No.: 756-5517/040-010
Sensor/Actuator cable; 2xM12 socket; angled; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5517/040-020
Sensor/Actuator cable; 2xM12 socket; angled; M12A plug; straight; 4-pole; Length: 2 m

Item No.: 756-5516/040-010
Sensor/Actuator cable; 2xM12 socket; straight; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5516/040-020
Sensor/Actuator cable; 2xM12 socket; straight; M12A plug; straight; 4-pole; Length: 2 m

Item No.: 756-5514/040-010
Sensor/Actuator cable; 2xM8 socket; angled; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5514/040-020
Sensor/Actuator cable; 2xM8 socket; angled; M12A plug; straight; 4-pole; Length: 2 m

Item No.: 756-5513/040-010
Sensor/Actuator cable; 2xM8 socket; straight; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5513/040-020
Sensor/Actuator cable; 2xM8 socket; straight; M12A plug; straight; 4-pole; Length: 2 m

1.2.1.5 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
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		

1.2.1.6 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

1.2.1.6 Power cable

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
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

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1.2.1.7 Sensor/actuator cable

Item No.: 756-5312/040-015
Sensor/Actuator cable; M12A plug; angled; 4-pole; Length: 1.5 m

Item No.: 756-5312/040-100
Sensor/Actuator cable; M12A plug; angled; 4-pole; Length: 10 m

Item No.: 756-5312/040-050
Sensor/Actuator cable; M12A plug; angled; 4-pole; Length: 5 m

Item No.: 756-5311/040-015
Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 1.5 m

Item No.: 756-5311/040-100
Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 10 m

Item No.: 756-5311/040-050
Sensor/Actuator cable; M12A plug; straight; 4-pole; Length: 5 m

Item No.: 756-5404/040-010
Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 4-pole; Length: 1 m

Item No.: 756-5404/040-020
Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 4-pole; Length: 2 m

Item No.: 756-5403/040-010
Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5403/040-020
Sensor/Actuator cable; M12A socket; angled; M12A plug; straight; 4-pole; Length: 2 m

Item No.: 756-5402/040-010
Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 4-pole; Length: 1 m

Item No.: 756-5402/040-020
Sensor/Actuator cable; M12A socket; straight; M12A plug; angled; 4-pole; Length: 2 m

Item No.: 756-5401/040-010
Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5401/040-020
Sensor/Actuator cable; M12A socket; straight; M12A plug; straight; 4-pole; Length: 2 m

Item No.: 756-5510/040-010
Sensor/Actuator cable; M8 socket; angled; M12A plug; angled; 4-pole; Length: 1 m

Item No.: 756-5510/040-020
Sensor/Actuator cable; M8 socket; angled; M12A plug; angled; 4-pole; Length: 2 m

Item No.: 756-5509/040-010
Sensor/Actuator cable; M8 socket; angled; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5509/040-020
Sensor/Actuator cable; M8 socket; angled; M12A plug; straight; 4-pole; Length: 2 m

Item No.: 756-5508/040-010
Sensor/Actuator cable; M8 socket; straight; M12A plug; angled; 4-pole; Length: 1 m

Item No.: 756-5508/040-020
Sensor/Actuator cable; M8 socket; straight; M12A plug; angled; 4-pole; Length: 2 m

Item No.: 756-5507/040-010
Sensor/Actuator cable; M8 socket; straight; M12A plug; straight; 4-pole; Length: 1 m

Item No.: 756-5507/040-020
Sensor/Actuator cable; M8 socket; straight; M12A plug; straight; 4-pole; Length: 2 m

Current addresses can be found at:: www.wago.com