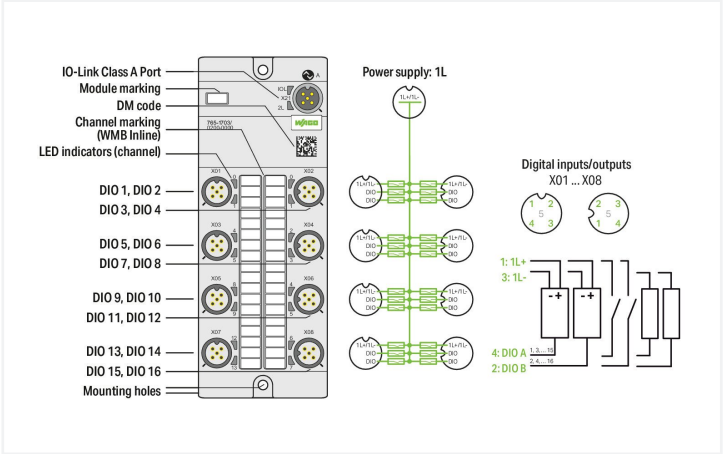




Application:
Decentralized preprocessing and conversion/output of digital signals

This device records and controls digital field device signals (e.g., from sensors and actuators) that are received or sent from a higher-level IO-Link master. The device is designed as a Class A hub and has 16 digital inputs/outputs.

IO-Link:
The device has an IO-Link communication interface that requires an IO-Link master for interoperation. The IO-Link interface allows direct access to the process and diagnostic data and enables setting of the device parameters during operation. The IODD can also be <https://ioddfinder.io-link.com> downloaded via the IODDfinder.

Technical data			
IO-Link		Device functions	
Communications	IO-Link slave (class A)	Parameter	Input filter Output current Temperature
Connection technology: communication/fieldbus	1 x A-coded M12; 5-pole	Diagnostics	Undervoltage; overcurrent; overload; overtemperature
Digital inputs/outputs		Power supply	
Number of digital inputs	16	Connection technology: supply	1 x A-coded M12; 5-pole; via IO-Link port (1L)
Number of digital outputs	16	Supply voltage	24 VDC (18 ... 31.2 V); 1L
Connection technology: inputs/outputs	8 x A-coded M12; 5-pole	Current consumption (max.)	4000 mA
Signal type (voltage)	24 VDC	Current consumption (note)	1L: 0.2 A + load current
Input characteristic	high-side switching Type 3, per IEC 61131-2	Reverse voltage protection	Yes
Input filter	0.2 ... 20 ms		
Output current (per channel)	2 A		



Physical data	
Width	60 mm / 2.362 inches
Height	30 mm / 1.181 inches
Depth	158.5 mm / 6.24 inches

Mechanical data	
Weight	170 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
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Pollution degree	3 (EN 60664-1)
Overvoltage category	II (EN 60664-1)
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	EC001599
ETIM 8.0	EC001599
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143949989
Customs tariff number	85371098990

Environmental Product Compliance	
CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I
SCIP notification number (Austria)	751f4ea3-f9d4-4d9d-a8f9-ae249b078e8b
SCIP notification number (Belgium)	980ab4ca-1025-4821-8584-8b06c37f34ae
SCIP notification number (Bulgaria)	a9d935ad-3d8f-4636-aff6-734ffd8c2e29
SCIP notification number (Czech Republic)	c61f9664-e21b-495b-a263-9ef0da3625cb
SCIP notification number (Denmark)	f70a939b-697f-417a-b6b1-e2b66410dc23
SCIP notification number (Finland)	758e8f4e-0304-4ebc-ab7b-10a079bc6743
SCIP notification number (France)	1475125a-a785-4483-8cf2-998df0b924fc
SCIP notification number (Germany)	39315bbd-8fc2-4304-88b3-d1ad24ae4721
SCIP notification number (Hungary)	d15acdb9-88b8-4a77-aa3c-60fb00f1ebae
SCIP notification number (Italy)	10810b13-b776-4000-9904-3ef3a72ad3b3
SCIP notification number (Netherlands)	d3f47be1-8eea-4db6-bf9d-b1419f081622
SCIP notification number (Poland)	11943c7f-4240-4b6b-83f8-1fec45661b58
SCIP notification number (Romania)	82142c4f-4997-4a78-93b9-5140e0772bd1
SCIP notification number (Sweden)	5698e619-1290-411e-b140-cf57d61846ae



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-IOLH765
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 765-1703/200-000



Documentation

Manual
Product Manual 16-Channel Digital Input/Output; IO-Link Class A Hub 1556730379 6 en-US 2024-11-12 18:30 16.01.2025

pdf
4634.70 KB



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



Instruction Leaflet

I/O System Field package insert 15.12.2021

pdf
1083.98 KB



CAD/CAE-Data

CAD data
2D/3D Models 765-1703/200-000



CAE data
EPLAN Data Portal 765-1703/200-000
ZUKEN Portal 765-1703/200-000





Runtime Software

Firmware			
0765-17xx, IO-Field	V 02 02.02.2023	zip 333.92 KB	

Libraries

Device Description File			
IODD 765-1703/200-000	V1.0.0.10 12.04.2021	zip 59.85 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 Configurable Connector			
			
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	Item No.: 756-9215/050-000 Fitted pluggable connector; 5-pole; M12 socket, right angle; Spring	Item No.: 756-9212/050-000 Fitted pluggable connector; 5-pole; M12 socket, straight; Spring
1.2.1.2 Distribution connector			
			
Item No.: 756-9301/040-000 Accessories; 4-pole	Item No.: 756-9301/050-000 Accessories; 5-pole	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		
1.2.1.3 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.: 756-5302/050-015 Sensor/Actuator cable; M12A socket; angled; 5-pole; Length: 1.5 m	Item No.: 756-5302/050-100 Sensor/Actuator cable; M12A socket; angled; 5-pole; Length: 10 m
			
Item No.: 756-5302/050-050 Sensor/Actuator cable; M12A socket; angled; 5-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.: 756-5404/050-010 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.: 756-5403/040-010 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.: 756-5403/050-010 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.: 756-5301/050-015 Sensor/Actuator cable; M12A socket; straight; 5-pole; Length: 1.5 m	Item No.: 756-5301/050-100 Sensor/Actuator cable; M12A socket; straight; 5-pole; Length: 10 m	Item No.: 756-5301/050-050 Sensor/Actuator cable; M12A socket; straight; 5-pole; Length: 5 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.: 756-5402/050-010 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.: 756-5401/040-010 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.: 756-5401/050-010 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



1.2.1.3 Sensor/actuator cable



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