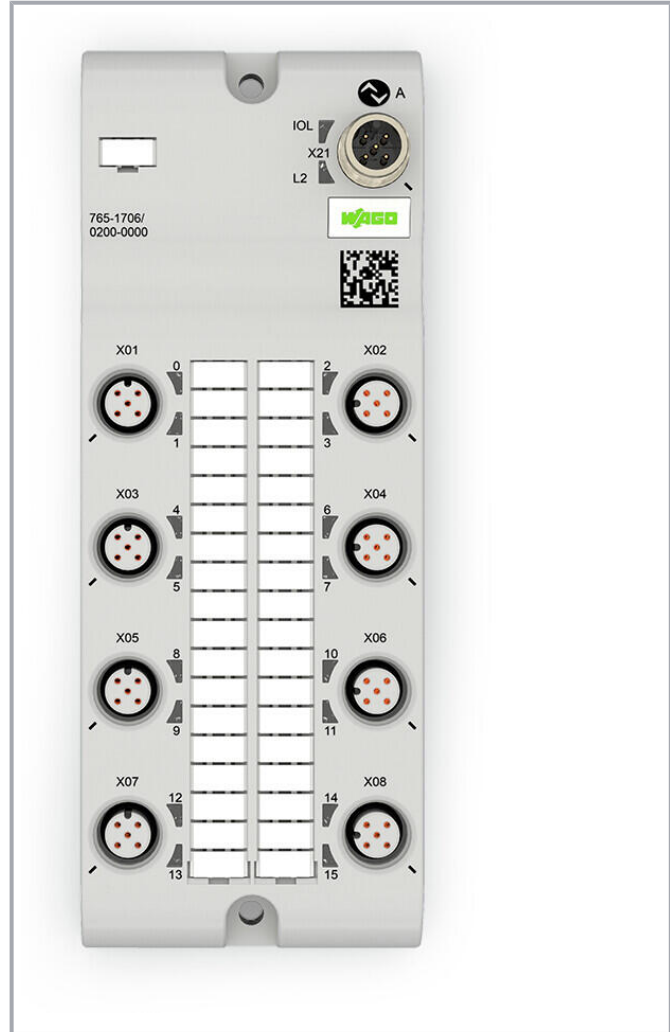


Data sheet | Item number: 765-1706/200-000

16-channel digital input/output; IO Link Class B Hub; DC 24 V / 2.0 A; 8xM12 connection; HubLine

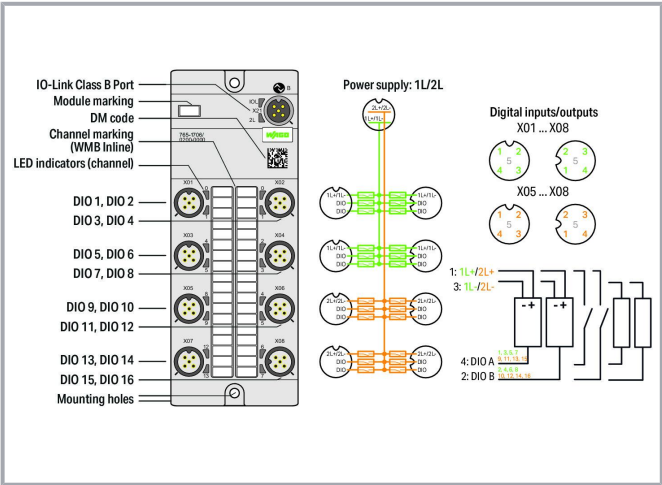
www.wago.com/765-1706/200-000



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Hansastr. 27
32423 Minden
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Item description

Einsatzbereich:

Dezentrale Vorverarbeitung und Konvertierung/Ausgabe von Digitalsignalen

Das Gerat dient zur Ansteuerung von digitalen Feldgeraten (z.B. Aktoren) und zur Erfassung von digitalen Signalen (z.B. von Sensoren), die von einem ubergeordneten IO-Link-Master gesendet bzw. empfangen werden. Das Gerat ist als Class-B-Hub ausgelegt und hat 16 digitale Ein-/Ausgange.

IO-Link:

Das Gerat verfugt uber eine IO-Link-Kommunikationsschnittstelle, die fur die Zusammenarbeit einen IO-Link Master voraussetzt.

Die IO-Link-Schnittstelle ermoglicht den direkten Zugriff auf die Prozess- und Diagnosedaten und bietet die Moglichkeit, die Parameter des Gerates wahrend des Betriebs einzustellen.

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

Data
Technical data

IO-Link

Communication	IO-Link slave (class B)
Connection technology: communication/fieldbus	1 x A-coded M12; 5-pole

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Device functions

Parameter	Input filter Output current Temperature
Diagnostics	Undervoltage; overcurrent; overload; overtemperature

Digital inputs/outputs

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

Power supply

Connection technology: supply	1 x A-coded M12; 5-pole; via IO-Link port (1L/2L)
Supply voltage	24 VDC (18 ... 31.2 V); 1L/2L
Current consumption (max.)	4000 mA
Current consumption (note)	1L: 0.2 A; 2L: 0.1 A; + load current
Reverse voltage protection	Yes

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

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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 8.0	EC001599
ETIM 7.0	EC001599
Recupel Type	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143949873
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)	2dde3cf6-cfd0-46d7-9a57-e8841864fa82
SCIP notification number (Belgium)	344c7f8b-f39c-427c-a3ee-4f69e39404a8
SCIP notification number (Bulgaria)	4e3dd708-ac81-4510-ade5-c12b7e092023
SCIP notification number (Czech Republic)	b1459229-d71c-4e96-b514-23ac50aa4edd
SCIP notification number (Denmark)	1f6413ec-b2b1-4f26-bd7f-efce47f6d600
SCIP notification number (Finland)	c9cd5549-ce37-4172-b925-0096dbbc8c4d
SCIP notification number (France)	24b70ad0-42ee-4bd3-9fe6-27643d72681f
SCIP notification number (Germany)	413b0d64-1a89-46e2-bc13-7c6dc50a8b27
SCIP notification number (Hungary)	c75d7529-1f8d-4acc-8d4c-217332858a58
SCIP notification number (Italy)	309e105a-69f5-43c2-9172-de5621066951
SCIP notification number (Netherlands)	36545f06-fd07-4607-96fc-52cfb286e6a8

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SCIP notification number (Poland)	e099c544-662d-4ec6-849e-f782cc5c3aac
SCIP notification number (Romania)	6910ad77-bf51-4936-af96-a2c707b388d2
SCIP notification number (Sweden)	b0d8db13-249a-4e25-9589-02e832888b27

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-IOLH765
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	-	E175199

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

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			
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**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

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.: 756-5402/050-010**

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

www.wago.com/756-5402/050-010**Item no.: 756-5301/050-015**

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

www.wago.com/756-5301/050-015**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**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.: 756-5302/050-050**

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

www.wago.com/756-5302/050-050**Item no.: 756-5302/050-100**

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

www.wago.com/756-5302/050-100

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**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.: 756-5404/040-020**

Sensor/Actuator cable; M12A socket; angled; M12A plug; angled; 4-pole; Length: 2 m

www.wago.com/756-5404/040-020**Item no.: 756-5404/050-010**

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

www.wago.com/756-5404/050-010**Item no.: 756-5510/040-010**

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.: 756-5302/050-015**

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

www.wago.com/756-5302/050-015**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

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	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
	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.: 756-5403/040-010 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.: 756-5403/050-020 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
	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
	Item no.: 756-5301/050-100 Sensor/Actuator cable; M12A socket; straight; 5-pole; Length: 10 m	www.wago.com/756-5301/050-100
	Item no.: 756-5301/050-050 Sensor/Actuator cable; M12A socket; straight; 5-pole; Length: 5 m	www.wago.com/756-5301/050-050
	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

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**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

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**Item no.: 756-9212/050-000**

Fitted pluggable connector; 5-pole; M12 socket, straight; Spring

www.wago.com/756-9212/050-000**Item no.: 756-9215/050-000**

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

www.wago.com/756-9215/050-000

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

Accessories; 5-pole

www.wago.com/756-9301/050-000**Item no.: 756-9301/040-000**

Accessories; 4-pole

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Downloads

Documentation

Manual

Product Manual 16-Channel Digital Input/Output; IO Link Class B Hub DC 24 V / 2.0 A; 8xM12 Connection; HubLine	V 2.0.0 2022 Jul 19	pdf 3.9 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.

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.

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Runtime Software

Firmware

0765-17xx, IO-Field	V 02	zip	Download
WAGO_FW0765_17xx_V01000010_IX02	2023 Feb 2	341.9 kB	

CAD/CAE-Data

CAD data

2D/3D Models 765-1706/200-000	URL	Download
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CAE data

ZUKEN Portal 765-1706/200-000	URL	Download
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EPLAN Data Portal 765-1706/200-000	URL	Download
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Asset Administration Shell

Asset Administration Shell 765-1706/200-000	URL	Download
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Device Files

Device Description File

IODD 765-1706/200-000	V1.0.0.10	zip	Download
	2021 Apr 12	61.1 kB	

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 765-1706/200-000	URL	Download
16-channel digital input/output; IO Link Class B Hub; DC 24 V / 2.0 A; 8xM12 connection; HubLine		

Installation Notes

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Product family

WAGO I/O System Field

[Show all products from the family](#)

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