

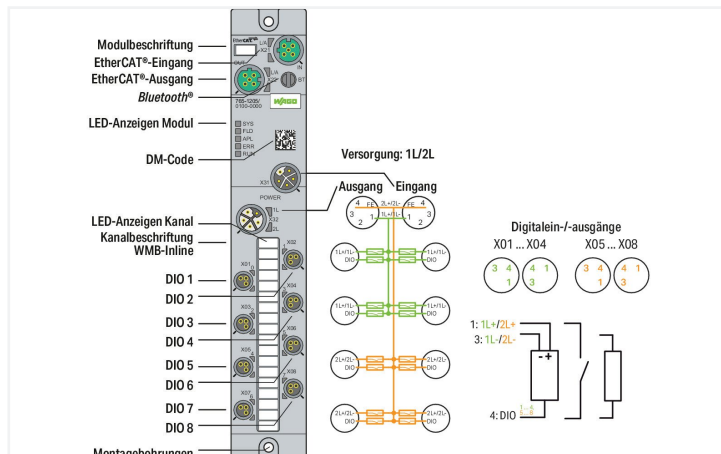
# Data Sheet | Item Number: 765-1205/100-000

8-channel digital input/output; EtherCAT; DC 24 V / 2.0 A; 8xM8 connection; SlimLine

<https://www.wago.com/765-1205/100-000>



Similar to illustration



## Technical data

### Fieldbus

Communication	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

### Digital inputs/outputs

Number of digital inputs	8
Number of digital outputs	8
Connection technology: inputs/outputs	8 x M8; 3-pole
Signal type (voltage)	24 VDC
Input characteristic	high-side switching Type 3, per IEC 61131-2
Input filter	0.2 ... 20 ms
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	35 mm / 1.378 inches
Height	30 mm / 1.181 inches
Depth	210 mm / 8.268 inches

## Mechanical Data

Weight	390 g
Conformity marking	CE

## Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Surrounding air 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 (5)	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 8.0	EC001599
ETIM 7.0	EC001599
PU (SPU)	1 pcs
Country of origin	DE
GTIN	4066966063059
Customs tariff number	85371098990

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product  
Compliance  
765-1205/100-000




## Documentation

### Manual

Product Manual 8- Channel Digital Input/ Output; EtherCAT; 24 VDC / 2.0 A;	V 2.0.0 19.07.2022	pdf 7116.32 KB	
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### System Description

WAGO I/O System Field; General Product Infor- mation	pdf 1009.23 KB	
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## Application Notes

Application Note e!COCKPIT			
e!COCKPIT Application	1.0.0	pptx	↓
Note EtherCAT IO-Field (a2022003)	12.12.2022	602.10 KB	

CAD/CAE-Data	
<b>CAD data</b> 2D/3D Models 765-1205/100-000 <span style="float: right;">↓</span>	<b>CAE data</b> EPLAN Data Portal 765-1205/100-000 <span style="float: right;">↓</span>

Runtime Software			
<b>Firmware</b>			
0765-x2xx, EtherCat IO-Field	V 01 23.07.2021	zip 1544.28 KB	↓

Libraries			
<b>Device Description File</b>			
Gerätebeschreibungsdateien 765-42xx, 765-12xx, EtherCAT	V1_1_0_17	zip 71.86 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

**Item No.: 756-8101**  
M8 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 connectors



**Item No.: 756-9105/030-000**  
 Fitted pluggable connector; 3-pole; M8 plug, right angle; IDC technology



**Item No.: 756-9102/030-000**  
 Fitted pluggable connector; 3-pole; M8 plug, straight; IDC technology



**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 connectors



**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 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.: 756-3504/050-150**  
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.: 756-3504/050-075**  
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.: 756-3503/050-150**  
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.: 756-3503/050-050**  
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.: 756-3502/050-100**  
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.: 756-3502/050-020**  
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.: 756-3502/050-075**  
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.: 756-3506/050-010**  
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.: 756-3506/050-150**  
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.: 756-3506/050-050**  
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.: 756-3501/050-100**  
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.: 756-3501/050-020**  
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.: 756-3501/050-075**  
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.: 756-3505/050-010**  
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.: 756-3505/050-150**  
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.: 756-3505/050-050**  
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

1.2.1.6 Sensor/actuator cable



**Item No.: 756-5504/030-010**  
Sensor/Actuator cable; M12A socket; angled; M8 plug; angled; 3-pole; Length: 1 m



**Item No.: 756-5504/030-020**  
Sensor/Actuator cable; M12A socket; angled; M8 plug; angled; 3-pole; Length: 2 m



**Item No.: 756-5503/030-010**  
Sensor/Actuator cable; M12A socket; angled; M8 plug; straight; 3-pole; Length: 1 m



**Item No.: 756-5503/030-020**  
Sensor/Actuator cable; M12A socket; angled; M8 plug; straight; 3-pole; Length: 2 m



**Item No.: 756-5502/030-010**  
Sensor/Actuator cable; M12A socket; straight; M8 plug; angled; 3-pole; Length: 1 m



**Item No.: 756-5502/030-020**  
Sensor/Actuator cable; M12A socket; straight; M8 plug; angled; 3-pole; Length: 2 m



**Item No.: 756-5501/030-010**  
Sensor/Actuator cable; M12A socket; straight; M8 plug; straight; 3-pole; Length: 1 m



**Item No.: 756-5501/030-020**  
Sensor/Actuator cable; M12A socket; straight; M8 plug; straight; 3-pole; Length: 2 m



**Item No.: 756-5112/030-015**  
Sensor/Actuator cable; M8 plug; angled; 3-pole; Length: 1.5 m



**Item No.: 756-5112/030-100**  
Sensor/Actuator cable; M8 plug; angled; 3-pole; Length: 10 m



**Item No.: 756-5112/030-050**  
Sensor/Actuator cable; M8 plug; angled; 3-pole; Length: 5 m



**Item No.: 756-5111/030-015**  
Sensor/Actuator cable; M8 plug; straight; 3-pole; Length: 1.5 m



**Item No.: 756-5111/030-100**  
Sensor/Actuator cable; M8 plug; straight; 3-pole; Length: 10 m



**Item No.: 756-5111/030-050**  
Sensor/Actuator cable; M8 plug; straight; 3-pole; Length: 5 m



**Item No.: 756-5204/030-010**  
Sensor/Actuator cable; M8 socket; angled; M8 plug; angled; 3-pole; Length: 1 m



**Item No.: 756-5204/030-020**  
Sensor/Actuator cable; M8 socket; angled; M8 plug; angled; 3-pole; Length: 2 m



**Item No.: 756-5203/030-010**  
Sensor/Actuator cable; M8 socket; angled; M8 plug; straight; 3-pole; Length: 1 m



**Item No.: 756-5203/030-020**  
Sensor/Actuator cable; M8 socket; angled; M8 plug; straight; 3-pole; Length: 2 m



**Item No.: 756-5202/030-010**  
Sensor/Actuator cable; M8 socket; straight; M8 plug; angled; 3-pole; Length: 1 m



**Item No.: 756-5202/030-020**  
Sensor/Actuator cable; M8 socket; straight; M8 plug; angled; 3-pole; Length: 2 m



**Item No.: 756-5201/030-010**  
Sensor/Actuator cable; M8 socket; straight; M8 plug; straight; 3-pole; Length: 1 m



**Item No.: 756-5201/030-020**  
Sensor/Actuator cable; M8 socket; straight; M8 plug; straight; 3-pole; Length: 2 m