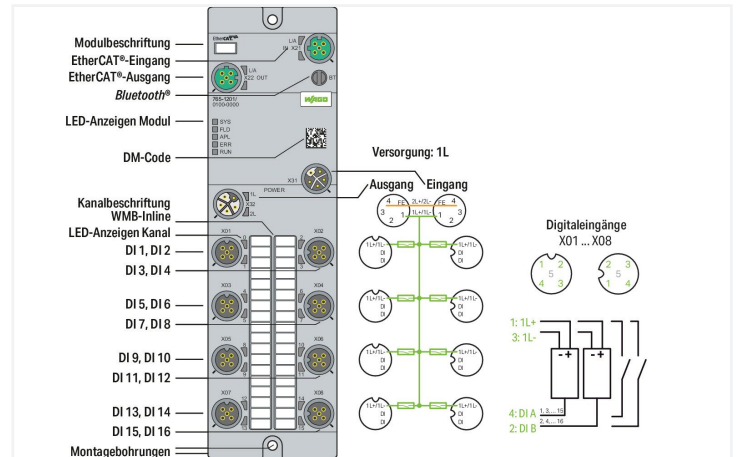


<https://www.wago.com/765-1201/100-000>



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 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
Connection technology: inputs/outputs	8 x A-coded M12; 5-pole
Signal type (voltage)	24 VDC
Sensor current (per channel) max.	2 A
Input characteristic	high-side switching Type 3, per IEC 61131-2
Input filter	0.2 ... 20 ms

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

### Mechanical Data

Weight	672 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	4066966063004
Customs tariff number	85371098990

### Downloads

#### Environmental Product Compliance

##### Compliance Search

Environmental Product  
Compliance  
765-1201/100-000




### Documentation

#### Manual

Product Manual 16-  
Channel Digital Input;  
EtherCAT; 24 VDC; V 2.0.0  
19.07.2022 pdf  
7684.97 KB 

#### System Description

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

### 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 765-1201/100-000 <span style="float: right;">↓</span>	<b>CAE data</b> EPLAN Data Portal 765-1201/100-000 <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

### 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.: 756-9205/040-000**  
 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 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 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 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.: 756-5312/040-015**  
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

1.2.1.6 Sensor/actuator cable



**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