

The EtherCAT® Fieldbus Coupler connects EtherCAT® to the modular WAGO I/O System.

The fieldbus coupler detects all connected I/O modules and creates a local process image. This process image may include a mixed arrangement of analog (word-by-word data transfer) and digital (bit-by-bit data transfer) modules.

The upper EtherCAT® interface connects the coupler to the network. The lower RJ-45 socket may connect additional EtherCAT® devices to the same line.

EtherCAT®\* (Ethernet Control Automation Technology) is a real-time ETHERNET solution designed for industrial automation applications and characterized by high performance, flexible topology and simple configuration. With EtherCAT®, the costly ETHERNET star topology can be replaced with a simple line or tree structure.

Technical data	
Communication	EtherCAT®
Baud rate	100 Mbit/s
Transmission medium	Shielded twisted pair S/FTP, F/FTP or SF/FTP; 100 Ω; Cat. 6
Transmission performance	Class D per EN 50173
Number of modules per node (max.)	64
Input and output process image (fieldbus) max.	1024 bytes/1024 bytes
Supply voltage (system)	24 VDC (-25 ... +30 %); via pluggable connector
Current consumption (5 V system supply)	300 mA
Total current (system supply)	700 mA
Input current (typ.) at nominal load (24 V)	250 mA
Power supply efficiency (typ.) at nominal load (24 V)	85 %
Isolation	500 V system/field

### Connection data

Connection technology: communication/fieldbus	EtherCAT: 2 x RJ-45
Connection technology: system supply	2 x CAGE CLAMP®
Connection technology: device configuration	1 x Male connector; 4-pole
Connection type 1	System supply
Solid conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 14 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches
Note (conductor cross-section)	14 AWG: THHN, THWN

### Physical data

Width	49.5 mm / 1.949 inches
Height	96.8 mm / 3.811 inches
Depth	71.9 mm / 2.831 inches
Depth from upper-edge of DIN-rail	64.7 mm / 2.547 inches

### Mechanical data

Mounting type	DIN-35 rail
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### Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.408 MJ
Weight	102.9 g
Conformity marking	CE

### Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Surrounding air temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2
EMC emission of interference	per EN 61000-6-3
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %	25 ppm

### Commercial data

Product Group	15 (Remote I/O)
eCl@ss 10.0	27-24-26-07
eCl@ss 9.0	27-24-26-07
ETIM 8.0	EC001603
ETIM 7.0	EC001603
PU (SPU)	1 Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4050821086819
Customs tariff number VKOrg Germany	8517620000

### Approvals and certificates

#### Ex-Approvals



Approval	Standard	Certificate name
ATEX TUEV Nord Cert GmbH	EN 60079-0	
CCCEX CQST/CNEx	CNCA-C23-01	2020312310000215 (Ex nA IIC T4 Gc)
EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AM02. B.00163/19 (2Ex nA IIC T4 Gc X)
IECEX TUEV Nord Cert GmbH	IEC 60079-0	IECEX_TUN_14.0035_X (Ex ec IIC T4 Gc)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079-0	BR-Ex_TÜV 12.1297 X
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

#### Country specific Approvals



Approval	Standard	Certificate name
EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087/19
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-FBC750

#### UL-Approvals



Approval	Standard	Certificate name
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1

## Downloads

## Environmental Product Compliance

## Compliance Search


Environmental Product  
Compliance 750-354



## Documentation

## Manual


System Manual WAGO I/O System 750 / 753 V 3.1.0 11.05.2022 pdf 8495.90 KB 

System Manual Series 750/753 

EtherCAT Fieldbus Coupler V 1.3.1 pdf 6735.05 KB 

## System Description

750/753 Series I/O-System – General Product Information pdf 953.35 KB 

Overview on WAGO-I/O-SYSTEM 750 approvals pdf 770.48 KB 


Use in Hazardous Environments V 1.0.0 pdf 1007.06 KB 

## Additional Information

Disposal; Electrical and electronic equipment, Packaging V 1.0.0 pdf 259.56 KB 


## Bid Text

750-354 19.02.2019 xml 5.54 KB 


750-354 21.07.2017 doc 29.50 KB 


## Application Notes

## Application Note e!COCKPIT

e!COCKPIT Anwendungshinweis EtherCAT IO-Field (a2022003) 1.0.0 01.03.2022 pptx 2140.18 KB 

## Application note, other

WAGO EtherCAT Coupler with CoDeSys SP (a116901) V1.1.2 05.01.2011 zip 4259.76 KB 

WAGO EtherCAT Coupler with TwinCAT 2.x (a116900) V1.0.0 05.01.2011 zip 650.54 KB 


## CAD/CAE-Data

## CAD data

2D/3D Models 750-354 

## CAE data

EPLAN Data Portal 750-354 

WSCAD Universe 750-354 

ZUKEN Portal 750-354 

## Runtime Software

### Firmware

0750-0354, Feldbus- koppler EtherCAT	V 05 19.10.2021	zip 666.20 KB	
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## Device Files

### Device Driver

WAGO USB Service Ka- bel Treiber / Serie 750 und 857	6.5.3.0 10.09.2014	zip 4721.96 KB	
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## Libraries

### Device Description File

(750-909) ESI file for EtherCAT 750 Series and 765 Series	23 09.07.2021	zip 211.85 KB	
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