

XCP-Gateway Basic



Product description

The protocol converter **XCP-Gateway Basic** is especially designed for the CSM EtherCAT® measurement module series and has been developed for measurement tasks with numerous measurement channels and high measurement data rates. The **XCP-Gateway Basic** allows the linking of CSM EtherCAT® measurement devices to the data protocol XCP-on-Ethernet, thus combining the advantages of data acquisition via EtherCAT® with the flexibility of the wide-spread standard XCP-on-Ethernet.

By using the XCP standard, **XCP-Gateway Basic** is not only suited for various stationary fields of application but most of all for the connection to common measurement data acquisition systems that are used in mobile applications.

Scope of delivery

- ▶ XCP-Gateway Basic
- ▶ Configuration software CSMconfig
- ▶ Documentation



Key features

- ▶ EtherCAT® to XCP-on-Ethernet converter
 - ▶ EtherCAT®: time synchronization of all measurement signals better than 1 µs
 - ▶ XCP-on-Ethernet: accuracy of measurement signal time stamps is 1 µs
- ▶ Suited for 4.5 million data points per second (MS/s), e.g. four channels with 1 MHz
- ▶ Autonomous master for CSM EtherCAT® devices of the measurement module series
- ▶ Simple configuration of XCP-Gateway Basic and connected measurement modules via CSMconfig

Accessories

- ▶ See datasheet "XCP/ECAT Accessories".

Technical data

Type designation	XCP-Gateway Basic
Technical data valid as of revision	C002
PC	
Physical layer	Ethernet 100Base-TX, 100 MBit/s
Protocol	XCP on UDP/IP
ECAT	
Physical layer	Ethernet 100Base-TX, 100 MBit/s
Protocol	EtherCAT®
Configuration	via CSMconfig, settings are stored in the device
Power supply	
Minimum	6 V DC (-10 %)
Maximum	50 V DC (+10 %)
Power consumption	typ. 2 W
LED Ethernet	Link/Activity PC (green)/Link/Activity ECAT (green)
LED Status	2 multi-colored LEDs for gateway and bus
Housing	aluminum, silver anodized
Protection class	IP67
Weight (device)	approx. 400 g
Dimensions (w × h × d)	approx. 200 × 35 × 50 mm, approx. 200 × 40 × 50 mm (Slide Case)
Connectors ¹	
PC (Ethernet/power supply)	LEMO 1B, 8-pole, code L
ECAT (EtherCAT®/power supply)	LEMO 1B, 8-pole, code A
Sync	LEMO 0B, 2-pole, code G (galvanically isolated)
Operating and storage conditions	
Operating temperature	-40 °C to +85 °C
Relative humidity	5 % to 95 %
Pollution degree	3
Storage temperature	-55 °C to +90 °C

¹ Optionally available in other variants.



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