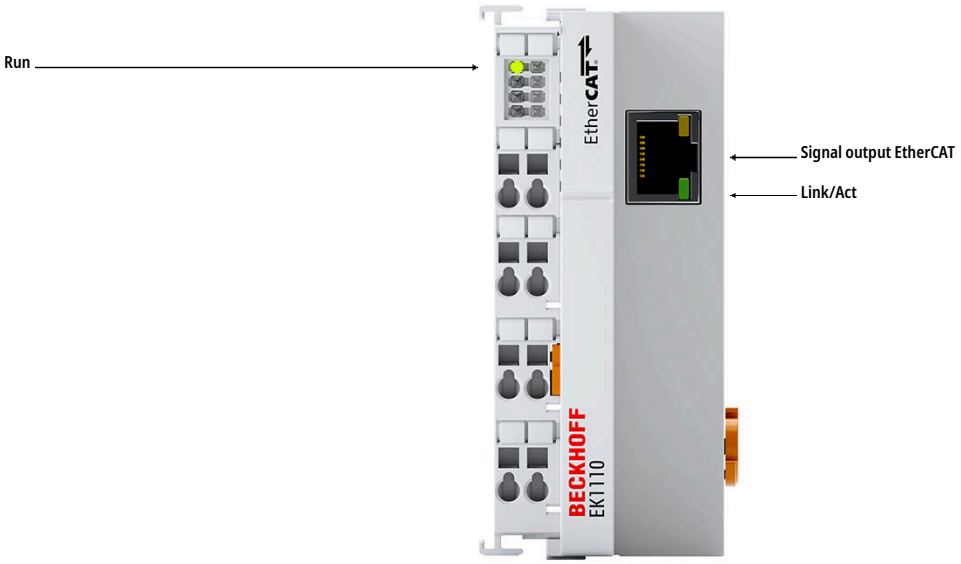
EK1110 | EtherCAT extension

Image similar, may contain optional accessories



EK1110 | EtherCAT extension

Product status: regular delivery

The EK1110 EtherCAT extension is placed at the end of an EtherCAT Terminal segment or an Embedded PC from the CX series and offers the option of extending the EtherCAT network in the form of a line topology.

Special features:

- Connection technology: 1 x RJ45 socket
- Connection lengths: up to 100 m
- Extension of an EtherCAT network in line topology

The EK1110 has an RJ45 socket that enables connection of an Ethernet cable with RJ45 connector and establishes a connection to a further EtherCAT segment or to individual EtherCAT devices. The E-bus signals are converted to 100BASE-TX Ethernet signal representation in a continuous process. Power supply to the EK1110 electronics is via the E-bus. No parameterization or configuration is required.

Product information

Technical data

Technical data	EK1110
Task within EtherCAT system	conversion of the E-bus signals to 100BASE-TX Ethernet for extension of the EtherCAT network

Technical data	EK1110
Transmission medium	Ethernet/EtherCAT cable (min. Cat.5), shielded
Distance between stations	100 m (100BASE-TX)
Protocol	any EtherCAT protocol
Propagation delay	approx. 1 µs
Transmission rate	100 Mbit/s
Configuration	not required
Bus interface	1 x RJ45
Power supply	from E-bus
Current consumption E-bus	typ. 130 mA
Electrical isolation	500 V (supply voltage/Ethernet)
Weight	approx. 50 g
Operating temperature	-25...+60°C
Storage temperature	-40...+85°C
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Relative humidity	95%, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
Protect. rating/installation pos.	IP20/variable
Approvals/markings	CE, CCC, UL, ATEX, IECEx, DNV, cFMus
Ex marking	ATEX: II 3G Ex ec IIC T4 Gc IECEx: Ex ec IIC T4 Gc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx ec IIC T4 Gc

Housing data	EK-44-8pin
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Side by side mounting by means of	double slot and key connection
Marking	labeling of the BZxxxx series
Dimensions (W x H x D)	44 mm x 100 mm x 68 mm

*s: solid wire; st: stranded wire; f: with ferrule

Material Compliance

Material compliance	EK1110
CAS No.	7439-92-1
REACH SVHC	Lead
REACH Annex XVII	compliant
REACH Annex XIV	compliant
SCIP No.	SCIP submission in progress
POP	compliant
RoHS	compliant with exemption
RoHS exemption	7c-I: Lead-containing electrical and electronic components in glass and ceramic materials, excluding dielectric ceramics in capacitors, 6c: Copper alloy with a mass fraction of up to 4% lead
China-RoHS	www.beckhoff.com/china-rohs-io
CA Prop65	www.beckhoff.com/prop65
Disclaimer	This statement and the information contained above are, to the best of our knowledge and belief, accurate, based on the information we have received from our suppliers. This information is in line with the current standard of technology and our suppliers' technical documentation. The absence of the substances is not verified by Beckhoff Automation by means of analytical tests. When addressed to our customers any information contained in this document is subject to the terms and conditions expressed in the governing customer agreement. Our general terms and conditions apply.