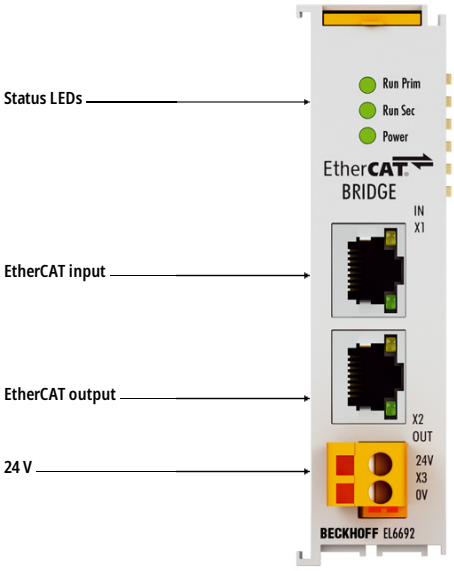
EL6692 | EtherCAT Terminal, communication interface, EtherCAT bridge



Top view

Product status: Regular delivery

The EtherCAT bridge terminal EL6692 enables real-time data exchange between EtherCAT strands with different masters. It also enables synchronization of the distributed clocks of the individual strands. The power supply on the primary side (E-bus) comes from the E-bus, on the secondary side (RJ45) via an external connection. If several EL6692 are used, data traffic to the terminals on the other side can continue in the event of a power supply failure on one side. The bridge terminal can also be used for integrating a subordinate PC system as an EtherCAT slave.

The data exchange between EtherCAT networks can be implemented with Beckhoff components in a wide variety of ways in order to cover diverse system requirements. Therefore, the possibilities should also be checked with the "similar products" listed below, the FCxxxx fieldbus cards or the B110 interface on various CX Embedded PCs.

Product information

Technical data

Technical data	EL6692
Technology	primary side: E-bus (terminal strand), secondary side: 2 x 100 Mbit/s Ethernet, RJ45, In/Out
Ports	primary: E-bus, secondary: 2 x RJ45 EtherCAT input/output
Function	EtherCAT distributed clock synchronization, data exchange
Cable length	100 m 100BASE-TX, secondary port
Hardware diagnostics	status LEDs
Power supply	primary: via the E-bus, secondary: via connector

Distributed clocks	yes
Electrical isolation	500 V (E-bus/secondary side)
Current consumption	E-bus: 120 mA; external: 60 mA/24 V (see documentation)
Bit width in the process image	16 bit SYNC input + IO input/output, max. 480 bytes in each direction
Current consumption power contacts	–
Current consumption E-bus	120 mA (E-bus), typ. 60 mA/24 V (external)
Special features	usable in TwinCAT as a reference clock, supports ADS over EtherCAT (AoE)
Weight	approx. 75 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. rating/installation pos.	IP20/variable
Approvals/markings	CE, UL, ATEX
Ex marking	II 3 G Ex nA IIC T4 Gc

Housing data	**EL-24**
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	24 mm x 100 mm x 52 mm
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	–
Wiring	specific push-in connection