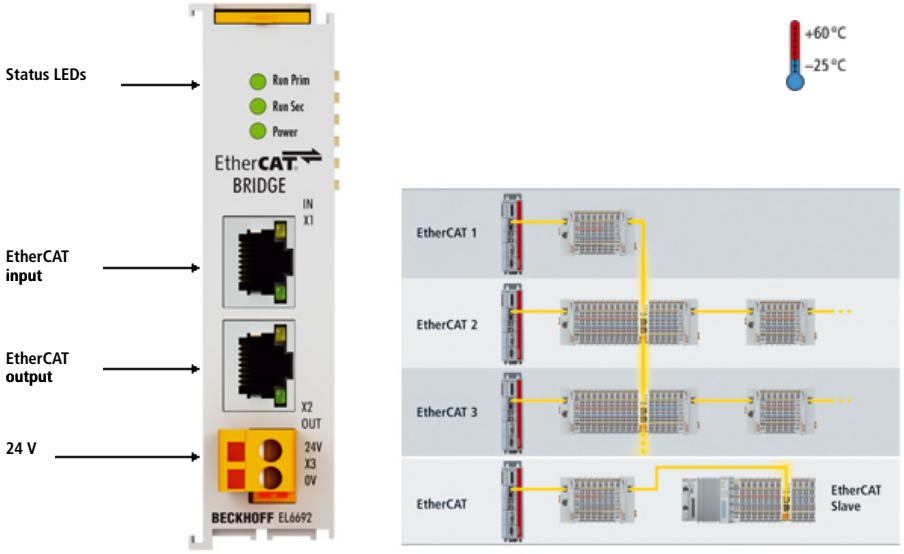

Top view

EL6692 | EtherCAT bridge terminal

The EtherCAT bridge terminal EL6692 enables real-time data exchange between EtherCAT strands with different masters. It also enables synchronisation 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.

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 synchronisation, data exchange
Cable length	100 m 100BASE-TX, secondary port
Hardware diagnosis	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. class/installation pos.	IP 20/variable
Approvals	CE, UL, Ex

Related products	
EL6695	EtherCAT bridge terminal