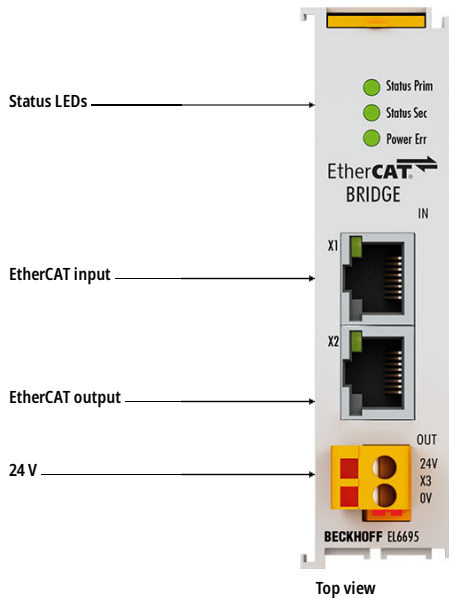


# EL6695 | EtherCAT Terminal, communication interface, EtherCAT bridge, extended functions



**i Product status:** Regular delivery

The EL6695 EtherCAT bridge terminal enables real-time data exchange between EtherCAT Terminal strands with different masters. Asynchronous communication via AoE, FoE, EoE, NPI, etc. is also supported. Synchronization of distributed clocks is possible in both directions. The EL6695 differs from the EL6692 (which will continue to be available) in terms of a flexible CoE configuration, a device emulation option and a significant increase in data throughput. A convenient configuration interface is available in the TwinCAT System Manager, as with the EL6692. The power supply for the secondary side (RJ45) is via an external connection, the primary side is supplied via the E-bus. 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 FCxxx fieldbus cards or the B110 interface on various CX Embedded PCs.

## Product information

### Technical data

| Technical data | EL6695   |
|----------------|--|
| 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, 24 V   |
| Distributed clocks                | yes  |
| Electrical isolation              | 500 V (E-bus/secondary side)   |
| Current consumption               | primary: E-bus 400 mA; secondary: 70 mA/24 V   |
| Bit width in the process image    | max. 3 kbyte per direction (dependent on the EtherCAT master, TwinCAT currently max. 1400 byte)                      |
| Special features                  | usable in TwinCAT as a reference clock, synchronous data exchange, flexible PDO mapping, supports AoE, EoE, FoE, VoE |
| Weight                            | approx. 75 g   |
| Operating/storage temperature     | 0...+55 °C/-25...+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   |

|                                   |   |
|-----------------------------------|---|
| <b>Housing data</b>               | <b>EL-24</b>  |
| 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                         |