

EL6695 | EtherCAT bridge terminal

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. Synchronisation 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.

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 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, 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. class/installation pos.	IP 20/variable
Approvals	CE, UL

Related products	
EL6692	EtherCAT bridge terminal