



Top view

EK1521 | 1-port EtherCAT fibre optic junction

In conjunction with an EK1100 EtherCAT Coupler, the EK1521 1-port EtherCAT fibre optic junction enables conversion from 100BASE-TX to 100BASE-FX physics (glass fibre). Distances of up to 2 km can be bridged with the EK1521 and the EK1501 EtherCAT Coupler for multimode fibre optics. EK1521-0010 and EK1501-0010 for singlemode fibre optics permit distances up to 20 km. Even cable redundant systems with fibre optic can be realised using the 1-port EtherCAT fibre optic junction. The run LED shows the status of the EK1521.

Technical data	EK1521	EK1521-0010
Task within EtherCAT system	coupling of EtherCAT junctions via multimode glass fibre	coupling of EtherCAT junctions via singlemode glass fibre
Data transfer medium	multimode glass fibre 50/125 µm (MM)	singlemode glass fibre 9/125 µm (SM)
Distance between stations	max. 2,000 m (100BASE-FX)	max. 20,000 m (100BASE-FX)
Number of EtherCAT Terminals	–	–
Type/number of peripheral signals	–	–
Protocol	EtherCAT	
Delay	approx. 1 µs	
Data transfer rates	100 Mbaud	
Configuration	not required	
Bus interface	1 x SC Duplex	
Power supply	from E-bus	
Current consumption E-bus	typ. 350 mA	
Current consumption 24 V DC	–	
Weight	approx. 65 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	

Further fibre optic products	
EK1501	EtherCAT Coupler with ID switch, multimode fibre optic for E-bus terminals (ELxxxx)
CU1521	EtherCAT media converter fibre optic, IP20
EP9521 EP9522	EtherCAT/Industrial Ethernet modules EP952x for Industrial Fast Ethernet/100 Mbaud

Accessories	
ZK1091-1001-xxxx	assembled fibre-optic cordsets
Cordsets	cordsets and connectors