



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. 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
Task within EtherCAT system	coupling of EtherCAT junctions via multimode glass fibre
Data transfer medium	multimode glass fibre 50/125 µm (MM)
Distance between stations	max. 2000 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	
EK1521-0010	1-port EtherCAT singlemode fibre optic junction, distance between stations up to 20 km
EK1501	EtherCAT Coupler with ID switch, multimode fibre optic for E-bus terminals (ELxxxx)
EK1501-0010	EtherCAT Coupler with ID switch, singlemode fibre optic for E-bus terminals (ELxxxx), distance between stations up to 20 km
EK1501-0100	EtherCAT Coupler, media converter (multimode fibre optic to RJ45) with ID switch
CU1521	EtherCAT media converter fibre optic, IP20
EP9521	EtherCAT/Industrial Ethernet module EP9521 for Industrial Fast Ethernet/100 Mbaud

Accessories	
EtherCAT POF	POF cordsets and connectors for EtherCAT
Cordsets	cordsets and connectors

