



ECAT-2511-A/ECAT-2511-B

EtherCAT to Single-mode Fiber Converter

Features

- Powerful MCU handles efficient network traffic
- Distance between Stations up to 25 km (100BASE-FX)
- 50% Cost Saving for Fiber Optic Infrastructures
- EtherCAT conformance test tool verified
- ESD Protection 4 KV Contact for each port



Introduction

The ECAT-2511-A and ECAT-2511-B are EtherCAT to single-mode fiber optic converter. They are designed not only to convert EtherCAT signals to optical signals on a fiber optic cable, to reshape the EtherCAT signal to compensate for distortion, but to isolate the bus error due to the wire short or disturbance. With the advantage of fiber optic, the ECAT-2511-A and ECAT-2511-B enable secure data transmission via fiber optic transmission, and helps the EtherCAT network to prevent the noise from EMS/RFI interference.

50% Cost Saving for Fiber Optic Infrastructures:

With a pair of ECAT-2511 series products (ECAT-2511-A and ECAT-2511-B), you can double the utilization of your existing, costly fiber optic cable, and save 50% of the cost of a newly installed fiber optic application.

* EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Applications



Hardware Specifications

Model	ECAT-2511-A	ECAT-2511-B
Protocol	EtherCAT	
Communication Interface	RJ-45 Port RJ-45 x 1 Distance between Stations: Max. 100 m (100BASE-TX) Data Transfer Medium: Ethernet/EtherCAT Cable (Min. CAT 5e)	
Fiber Port	Single-Mode; SC connector x 1	Single-Mode; SC connector x 1
Wavelength	TX: 1310, RX: 1550 nm	TX: 1550, RX: 1310
Distance between Stations	25 km (9/125 μm recommended)	25 km (9/125 μm recommended)
Power Input	Redundant Input Range +12 ~ +48 VDC Power Consumption 0.1 A @ 24 VDC Protection Power reverse polarity protection Connector 3-Pin Removable Terminal Block (5.08mm)	
Mechanical	Dimensions (H x W x D) 11 mm x 90 mm x 33 mm Installation DIN-Rail Mounting	
Environment	Operating Temperature -25 ~ +75°C Storage Temperature -30 ~ +80°C Relative Humidity 10 ~ 90% RH, Non-condensing	

Ordering Information

ECAT-2511-A CR	EtherCAT Single-Strand Media Converter, TX 1310 nm, RX 1550 nm, SC (RoHS) 5fh" Bc" % &) + ("
ECAT-2511-B CR	EtherCAT Single-Strand Media Converter, TX 1550 nm, RX 1310 nm, SC (RoHS) 5fh" Bc" % &) + ' "

Important Note: You must purchase both ECAT-2511-A and ECAT-2511-B since these products work as a pair.