

iEDX100 Industrial Ethernet Modem



Introduction

arcutronix iEDX100 is a 1-port media converter/Modem qualified for extended distance transmission under harsh environment. For the easy maintenance and time-saving, iEDX100 features remote Link Fault Pass Through technology which provides remote link down signal forwarding, acknowledging link events occurred on each end of iEDX100 to main server. To activate forwarding mode and LFP functions, simply adjust DIP switch then reset the converter, the reconfigurations will be applied.

Single-mode and Multi-mode fibre optical ports meet your needs for long distance transmission up to 100 Km. It can be easily wall mounted and be mounted directly on DIN rail. iEDX100 has two DC24V inputs with range from DC12V-48V. Dual power inputs and built-in reverse polarity protection are designed as the redundant power system to ensure your power on each end of iEDX100 to main server. With IP 30 rigid aluminum case, redundancy. CE/FCC regulatory approvals, and 3-year global warranty, iEDX100 series are your reliable choices for hazardous applications.

Features

- ▶ One port 10/100 TX to 100 FX media converter
- ▶ Fully compatible with IEC 60870-5-104
- ▶ Choice of SC, ST or LC connector for multimode and single mode
- ▶ Supports packet length up to 2046 bytes
- ▶ Supports 9K jumbo packets
- ▶ LFP (Link Fault Pass-through) far-end fault detection technology
- ▶ Power failure, port break alarm by relay output
- ▶ Power redundancy with wide range input, DC24V (12-48V)
- ▶ Reverse power polarity protection
- ▶ IP-30 grade protection case
- ▶ -40°C-75°C wide operating temperature for hazardous environments
- ▶ RoHS Compliance

iEDX100

Industrial Ethernet Modem

Application Example

The industry modem iEDX100 brings Ethernet into the rough environment: The iEDX100 allows high speed Ethernet in places where communication has been a problem before. Temperature-, Humidity-, and Voltage potential-problems are now a thing of the past. The hardened i-series with fibre optic transmission is the right solution for hazardous applications. Communication or video supervision can be done easily and safely for public transport companies (railway, subway, air traffic control...), energy suppliers (electricity station, gas plants, windmill powered plants...), highways, and including public buildings etc.

Specifications

Network I/F (optical)

- 100-FX SC/ST Full-/Half-Duplex
MM 1310nm 2Km
- 100-FX SC Full-/Half-Duplex
SM 1310nm 5/20/60/100Km
- 100-FX Bidi-SC Full-/Half-Duplex
SM 1310nm/1555nm 20Km

Service I/F Ports

- 10/100 BaseT
- IEEE 802.3
- IEEE 802.3u 100 BaseT
- IEEE 802.3x Flow control and back pressure

Environmental

- Operating: -40°to +75°C
- Humidity: 5% to 95%
- EMI CISPR 22:A1 :2000+A2:2002
ICES-003:2004, Class A
- EMC EN55022:Class A
EN61000-3-2 :2000
EN61 000-3-3: 1995+A1:2001
EN55024
IEC61000-4-2/3/4/5/6/8/11
- Shock IEC60068-2-27
- Freefall IEC60068-2-32
- Vibration IEC60068-2-6
- Case IP30 Protection
- MTBF 192000hr
- Warranty 3 Years

Power

- Consumption: <3,5 VA
- Input Voltage:
 - 24 VDC (12...48 VDC)
- Dual power feed

Physical

- Standalone version:
 - Dimension: 29.8 (W)×108 (H)×98 (D) mm
 - Weight: < 0,5 kg
- Installation: DIN Rail, Wall mount, Desktop

Specification may change without prior notice. Please refer to www.arcutronix.com for latest data-sheets.

For more information please contact arcutronix GmbH or visit us at www.arcutronix.com.

Version 03/11 © 2011 arcutronix GmbH