Carrier Ethernet

iEDX1000
Industrial Ethernet Modem

Introduction

arcutronix iEDX1000 is a 1-port media converter/ modem qualified for extended distance transmission under harsh environment. For the easy maintenance and time-saving, iEDX1000 features remote Link Fault Pass Through technology which provides remote link down signal forwarding, acknowledging link events occurred on each end of iEDX1000 to main server. To activate forwarding mode and IFP 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. iEDX1000 can be easily wall mounted and be mounted directly on DIN rail. iEDX1000 provides three DC24V inputs with range from DC 12V-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 iEDX1000 to main server. With IP30 rigid aluminum case, CE/FCC regulatory approvals, and 3-year global warranty, iEDX1000 series are your reliable choices for hazardous applications.

Features

- One port 1000 TX to 1000 FX media Converter/modem
- Choice of SC, Bidi or LC connector for multimode and singlemode
- IFP (Link Fault Pass-through) detection technology
- Power failure, port break alarm by relay output
- Power redundancy include Power A,
- Power B (Removable terminal block dual inputs) and DC jack with wide range input, C24V(12-48V)
- Reverse power polarity protection
- IP30 grade protection case
- -40°C -75°C wide operating temperature
- For hazardous environment applications
- RoHS Compliance

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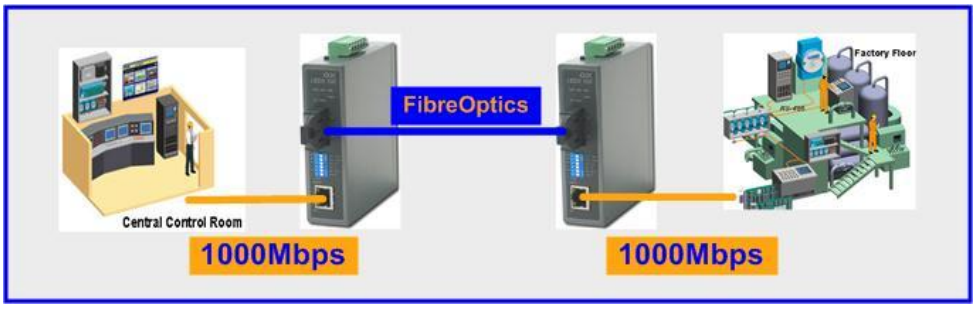
Application Example



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)

- 1000-FX SC/LC Full-/Half-Duplex
  MM 1310nm 2Km
- 1000-FX SC Full-/Half-Duplex
  SM 1310nm 20/60/100Km
- 1000-FX Bidi-SC Full-/Half-Duplex
  SM 1310nm/1550nm 20Km

Service I/F Ports

- 1000 BaseT
- IEEE 802.3z
- IEEE 802.3ab
- IEEE 802.3x Flow control and back pressure

Power

- Consumption: <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

Environmental

- Operating: -40°C 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

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.

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