

Industrial media converters

Industrial Ethernet converter/switch, with 10/100 Ethernet ports and SC Fiber ports for connecting with devices like IP camera, computer, switch, hub, server, etc, as well as, industrial VoIP phone, wireless AP and other devices. Specially designed for harsh outdoor applications. Its 3KV network port surge protection can adapt to harsh outdoor environment and ensure the reliability of the uninterrupted PoE system. Power input also chooses industry-standard types of power.

Features

- 1 Port 10/100Mbps RJ45 with Auto Uplink™ , 1 port 100Mbps SC
- Automatic MAC address learning and aging
- Automatically support IGMP (Multicasting)
- 10/100Mbps Auto-negotiation , auto-MDI-MDI-X
- LED indicators for monitoring power/link/activity
- Supports 10/100Mbps-Full/Half-duplex
- Supports Wall-mount and DIN-Rail installation for lightning protection
- Supports Daisy-Chain connection
- Supports Broadcast Storm Control
- Supports Relay output for power failure
- Super lightning protection, IP40 protection.
- Excellent heat elimination without cooling fan.
- Redundant dual DC power inputs.
- Redundant Power Inputs
- Apply to Urban Intelligent Traffic Monitoring System (ITS), Safe City.
- Harsh industrial environment or higher requirement
- -40°C-85°C operating temperature range.
- 5-Year Warranty



Technical specifications

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|---------------------------|--|
| Network Protocols | IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;IEEE802.3u;100Base-TX/FX; |
| Network Media | 10BASE-T: Cat3,4,5 UTP(≤100 meter) |
| | 100BASE-TX: Cat5 or later UTP(≤100 meter) |
| Fiber Media | Multi-mode: 2KM Single-mode: 20/40/60/80KM |
| Performance Specification | Bandwidth: 20Gbps |
| | Packet Buffer Memory:2M |
| | Packet Forwarding Rate:1488000pps/port |
| | MAC Address Table: 16K |
| Forwarding Mode | Store-and-Forward |
| Protection | Lightening protection, IP40 protection |
| LED Indicators | Power: PWR; Link; Link/Act |
| Power Supply | Input Power: 2x10~58VDC (Terminal Block) |
| Working Environment | Working temperature: -40~85℃ ; Storage temperature: -45~85℃ |
| | Relative Humidity: 5%~95 %(no condensation) |

Technical specifications

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| Industry Standard | FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: |
| | IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) |
| | IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) |
| | IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV |
| | IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV |
| | IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) |
| | IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) |
| Shell | IP40 protect grade, metal shell |
| Installation | DIN-Rail or Wall mounts |
| Packing List | 1×Industrial Ethernet Switch (plus terminal block) |
| | 1×User Manual/Certificate of quality/Warranty card |
| | 1×DIN-Rail mounting kit |
| Certification | CE mark, commercial; FCC Part 15 Class B; VCCI Class B |
| | EN 55022 (CISPR 22), Class B |
| MTBF | 350,000 hours |
| Weight & Size | Product Weight: 0.6KG |
| | Packing Weight: 1.1 KG |
| | Product size (L×W×H): 15.7cm× 12cm× 4.8cm |
| | Packing size(L×W×H): 25.7cm× 18.2 cm× 6.7 cm |
| Warranty | 5-years |

Typical application



| Fiber type | Twisted pair ports | Part Number | Description |
|-------------------------------|--------------------|---------------------|---|
| Multi mode | 1 | MC2FM100/13/2ING | Industrial 10/100M converter, 1310nm, 1 RJ45 port , 2 SC ports, MM 2km, DIN Rail type, DC10~52V |
| | 2 | MC2FM100/13/2ING+2 | Industrial 10/100M converter, 1310nm, 2 RJ45 ports , 2 SC ports, MM 2km, DIN Rail type, DC10~52V |
| | 4 | MC2FM100/13/2ING+4 | Industrial 10/100M converter, 1310nm, 4 RJ45 ports , 2 SC ports, MM 2km, DIN Rail type, DC10~52V |
| Single Mode 2 fibers | 1 | MC2FS100/13/2ING | Industrial 10/100M converter, 1310nm, 1 RJ45 port , 2 SC ports, SM 20km, DIN Rail type, DC10~52V |
| | 2 | MC2FS100/13/2ING+2 | Industrial 10/100M converter, 1310nm, 2 RJ45 ports , 2 SC ports, SM 20km, DIN Rail type, DC10~52V |
| | 4 | MC2FS100/13/2ING+4 | Industrial 10/100M converter, 1310nm, 4 RJ45 ports , 2 SC ports, SM 20km, DIN Rail type, DC10~52V |
| Single Mode Bi-Directional | 1 | MC1FS100/15/20ING | Industrial 10/100M BI-DI converter, TX1550nm, RX1550nm, 1 RJ45 port , 1 SC port, SM 20km, DIN Rail type, DC10~52V |
| | 1 | MC1FS100/13/20ING | Industrial 10/100M BI-DI converter, TX1310nm, RX1310nm, 1 RJ45 port , 1 SC port, SM 20km, DIN Rail type, DC10~52V |
| | 2 | MC1FS100/15/20ING+2 | Industrial 10/100M BI-DI converter, TX1550nm, RX1550nm, 2 RJ45 ports , 1 SC port, SM 20km, DIN Rail type, DC10~52V |
| | 2 | MC1FS100/13/20ING+2 | Industrial 10/100M BI-DI converter, TX1310nm, RX1310nm, 2 RJ45 ports , 1 SC port, SM 20km, DIN Rail type, DC10~52V |
| | 4 | MC1FS100/15/20ING+4 | Industrial 10/100M BI-DI converter, TX1550nm, RX1550nm, 4 RJ45 ports , 1 SC port, SM 20km, DIN Rail type, DC10~52V |
| | 4 | MC1FS100/13/20ING+4 | Industrial 10/100M BI-DI converter, TX1310nm, RX1310nm, 4 RJ45 ports , 1 SC port, SM 20km, DIN Rail type, DC10~52V |

