



# MC350-4T-2S

## 4-Port Gigabit Ethernet to 2-Port SFP Industrial Media Converter

### Overview

The IFS® 4-Port Gigabit Ethernet to 2-Port SFP Industrial Media Converter is designed for the most demanding IP network applications offering the flexibility of SFP technology and wide operating temperature range.

### SFP Technology

This model converts 10/100/1000Base-T Ethernet on copper to 100Base-X or 1000Base-X fiber via Small Form-factor Pluggable (SFP) technology. The media converter can be custom configured to your exact system design specifications by utilizing a variety of IFS SFP Mini-GBIC modules. IFS SFP Mini-GBIC modules are available in a variety of versions from multi-mode or single mode fiber, 1 or 2 fibers and wide-temperature versions.

### Flexible Drop-and-Repeat or Redundant Path Operation

These models support 2 SFP ports that can easily be configured for either drop-and-repeat or redundant path operation. In drop-and-repeat mode, the unit operates like a 6-port switch and can be used as a repeater with an electrical drop or simply as an optical repeater/extender. In redundant path mode, the unit will quickly switch to the second SFP port as a redundant path if the primary optical path experiences an optical cable failure. Also, if the primary destination port link is down, the module will forward the data packet to the redundant path providing a highly fault-tolerant solution for mission critical IP applications.



### Details

- 10/100/1000 Base-SX/BX/LX/LHX/ZX and 100 Base-FX/BX/LX
- 10/100/1000Base-T: 2-pair Cat. 5e/6 UTP cable, up to 100 meters
- 2 SFP slots provide for custom configuration
- Optical fiber and distance varies by SFP (ordered separately)
- Plug-n-play installation
- Slim IP30 metal enclosure
- DIN-rail or wall-mounting
- 12 to 48 VDC or 24VAC, redundant power with reverse-polarity protection
- Alarm relay output for port breakdown and power-failure alert
- Complies with IEC60068-2-xx standards for free-fall, shock and vibration
- Wide operating temperature range of -40°C ~ +75°C

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### Technical specifications

#### General

|                          |                 |
|--------------------------|-----------------|
| Category                 | Industrial      |
| Type                     | Ethernet to SFP |
| Switch throughput (Mpps) | 14.8            |
| Drop and repeat          | Yes             |
| Fault relay output       | Yes             |

#### Connections

|                  |  |
|------------------|--|
| No. of ports     | 4  |
| Port speed       | Gigabit                                      |
| Port type        | 10/100/1000                                  |
| Fiber port       | 2  |
| Fiber port type  | SFP  |
| Fiber port speed | 1000Base SX/BX/LX/LHX/ZX or 100Base FX/LX/BX |
| Supported SFPs   | S20/S25 series, S30/S35 series               |
| Fiber distance   | SFP dependant                                |
| Fiber connector  | LC   |
| Wavelength       | SFP dependant                                |

#### Electrical

|                    |                        |
|--------------------|------------------------|
| Power supply type  | 12 to 48 VDC           |
| Power supply value | 24 to 48 VDC or 24 VAC |
| Power consumption  | 7.2 W                  |
| PoE                | No                     |
| Redundant power    | Yes                    |

#### Physical

|                     |  |
|---------------------|--|
| Physical dimensions | 135 x 87 x 32 mm, 1.25 x 5.32 x 3.43 in. (H x W x D) |
| Net weight          | 500 g, 1.2 lbs.                                      |
| Mounting type       | DIN-rail, Wall mount                                 |

#### Environmental

|                       |                        |
|-----------------------|------------------------|
| Operating temperature | -40 to +75°C           |
| Storage temperature   | -40 to +85°C           |
| Relative humidity     | 5 to 90% noncondensing |
| IP rating             | IP30                   |
| MTBF                  | >50,000 h @ 25°C       |

#### Ethernet

|                                |  |
|--------------------------------|--|
| Data Rate                      | 10/100/1000 Base-T   |
| Throughput (packet per second) | 1,488,000 pps  |
| Switch Architecture            | Store-and-forward  |
| Jumbo Packet Size              | 9 K  |
| Flow Control                   | Back Pressure for Half Duplex, Mode Pause for Full-Duplex Mode IEEE 802.3x   |
| Connector                      | RJ-45 (Auto-MDI/MDI-X)   |
| Cable Type and Distance        | 10Base-T: 2-pair UTP Cat. 3,4,5, up to 100 m (328 ft.) / 100Base-TX: 2-pair UTP Cat. 5e, up to 100 m (328 ft.) / 1000 Base-T: 4-pair UTP Cat. 5e, 6 up to 100m (328 ft.) |

#### Fiber

|                         |   |
|-------------------------|---|
| Data Rate               | 100Base-FX/BX/LX and 1000Base-SX/BX/LX/LHX/ZX |
| Connector               | SFP (Mini-GBIC) port                          |
| Fiber Type and Distance | Varies by SFP module                          |

#### LED Indicators & Controls

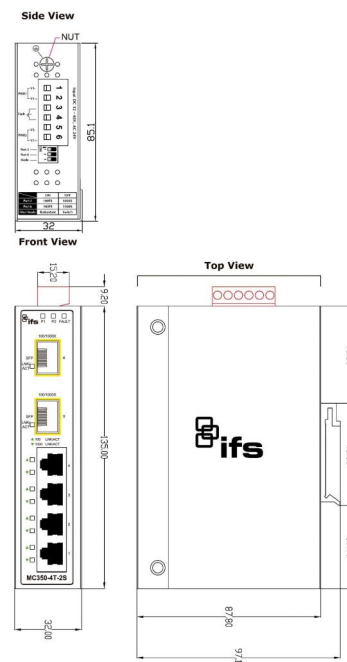
|                           |                                |
|---------------------------|--------------------------------|
| Power/Status              | Green/On - power               |
| 10/100/1000Base-TX port   | Green/On - active port (TX/RX) |
| SFP (Mini-GBIC) port link | Green/On - link established    |

#### Electrical & Mechanical

|           |                            |
|-----------|----------------------------|
| Enclosure | IP30 rated metal enclosure |
|-----------|----------------------------|

#### Standards Compliance

|      |   |
|------|---|
| IEEE | IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX / 100Base-FX / IEEE 802.3ab 1000Base-TX / IEEE 802.3z 1000Base-SX/LX/BX / IEEE 802.3x Flow Control and Back Pressure |
| EMI  | EN 55022 CLASS A / EN61000-3-2:2006 / EN61000-3-3: 1995+1A:2001+A2:2005   |
| EMS  | EN 55024:1998+A1:2001+A2:2003 / IEC 61000-4-2:2001 / IEC 61000-4-3:2008 / IEC 61000-4-4:2004 / IEC 61000-4-5:2005 / IEC 61000-4-6:2008 / IEC 61000-4-8:2001       |



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