

## IFS-800

### 8x FE RJ45

- » Provides a DIP-Switch to Set Functions
- » Supports Power Failure Alarm Message by Relay
- » 12/24/48VDC (9.6~60VDC) Redundant Dual Power Input
- » IP30, Rugged Metal Housing, Fanless
- » EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified



The industrial unmanaged Ethernet switch IFS-800 provides stable and reliable Ethernet transmission, features 8 ports 10/100Base-TX UTP. Housed in rugged enclosures, designed for harsh environments, fanless, high MTBF, supports wide operating temperature, and redundant 12/24/48VDC power input, it is suitable for heavy-duty applications such as industrial networking, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

## Features

- Wide operating temperature -40 ~ 75°C (-E model)
- Provides broadcast storm protection

## Specifications

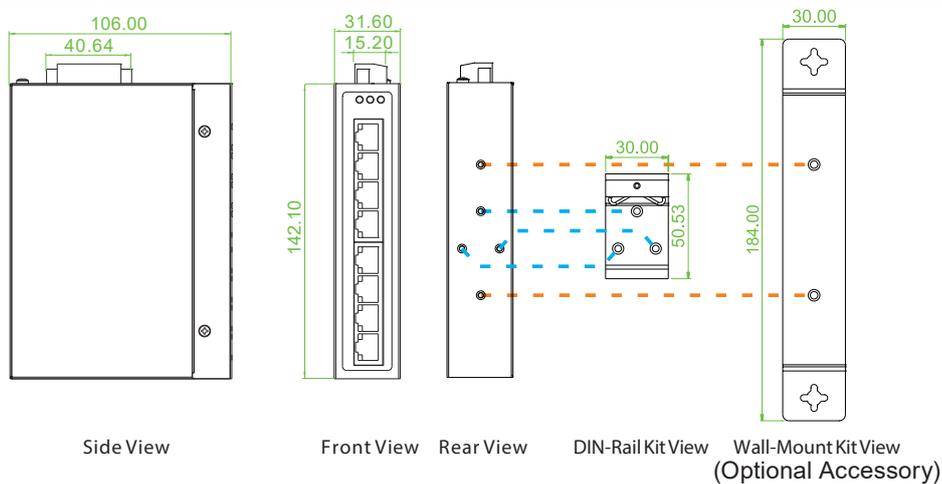
|  |   |   |
|--|---|---|
| <b>Standard</b>                            | IEEE 802.3  | 10Base-T Ethernet   |
|  | IEEE 802.3u   | 100Base-TX and 100Base-FX Fast Ethernet                     |
|  | IEEE 802.3z   | 1000Base-X Gigabit Ethernet over fiber-optic                |
|  | IEEE 802.3x   | Flow Control and Back Pressure                              |
| <b>Switch Architecture</b>                 | Back-Plane (Switching Fabric): 1.6Gbps (Full Wire-Speed)                                    |   |
| <b>Data Processing</b>                     | Store and Forward   |   |
| <b>Transfer Rate</b>                       | 14,880pps for Ethernet port   |   |
|  | 148,800pps for Fast Ethernet port   |   |
|  | 1,488,000pps for Giga Ethernet port   |   |
| <b>Flow Control</b>                        | IEEE 802.3x flow control, back pressure flow control  |   |
| <b>Provides Broadcast Storm Protection</b> | Present, Enable / Disable set by DIP SW   |   |
| <b>MAC Address Table</b>                   | 2K  |   |
| <b>Packet Buffer Size</b>                  | 448Kbit   |   |
| <b>Network Connector</b>                   | 8x RJ-45  |   |
|  | RJ-45 Port: Auto MDI/MDI-X function, 10/100Base-TX Auto negotiation speed, Full/Half duplex |   |
| <b>Network Cable</b>                       | UTP/STP Cat. 5e cable or above  |   |
|  | EIA/TIA-568 100-ohm (100meter)  |   |
| <b>Protocol</b>                            | CSMA/CD   |   |
| <b>LED</b>                                 | System: Power 1 (Green), Power 2 (Green), Fault (Amber)                                     |   |
|  | UTP: Link/Active (Green)  |   |
|  | Speed 100 (Yellow)  |   |
| <b>DIP SW</b>                              | DIP 1   | OFF : Enable power failure alarm<br>ON : Disable            |
|  | DIP 2   | Broadcast storm protection<br>OFF : Enable    ON : Disables |
| <b>Reverse Polarity Protection</b>         | Supported for Power Input   |   |
| <b>Overload Current Protection</b>         | Supported   |   |
| <b>Power Supply</b>                        | Redundant Dual DC 12/24/48V (9.6~60VDC) Input power (Removable Terminal Block )             |   |
| <b>Power Consumption</b>                   | 3.9W  |   |
| <b>Alarm Relay Contact</b>                 | Relay outputs with current carrying capacity of 1A @24VDC, NC                               |   |

# Industrial Fast Ethernet Switch

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|--|--|
| <b>Removable Terminal Block</b>                              | Provides 2 Redundant power, Alarm relay contact, 6 Pin   |
| <b>Operating Temperature</b>                                 | -10 ~ 60°C (IFS-800)<br>-40 ~ 75°C (IFS-800-E)   |
| <b>Operating Humidity</b>                                    | 5% to 95% (Non-condensing)   |
| <b>Storage Temperature</b>                                   | -40 ~ 85°C   |
| <b>Housing</b>   | Rugged Metal, IP30 Protection and Fanless  |
| <b>Dimensions</b>  | 106 x 31.6 x 142mm (D x W x H)   |
| <b>Weight</b>  | 0.43kg   |
| <b>Installation Mounting</b>                                 | DIN Rail mounting or wall mounting (Optional)  |
| <b>MTBF</b>  | 1,064,064 Hours (MIL-HDBK-217)   |
| <b>Warranty</b>  | 5 years  |
| <b>Certification</b>   |  |
| <b>EMC/EMS</b>   | CE (EN55032, EN55035)  |
| <b>EMI (Electromagnetic Interference)</b>                    | FCC Part 15 Subpart B Class A, CE  |
| <b>Railway Traffic</b>                                       | EN50121-4  |
| <b>Immunity for Heavy Industrial Environment</b>             | EN61000-6-2  |
| <b>Emission for Heavy Industrial Environment</b>             | EN61000-6-4  |
| <b>EMS (Electromagnetic Susceptibility) Protection Level</b> | EN61000-4-2 (ESD) Level 3, Criteria B<br>EN61000-4-3 (RS) Level 3, Criteria A<br>EN61000-4-4 (Burst) Level 3, Criteria A<br>EN61000-4-5 (Surge) Level 3, Criteria B<br>EN61000-4-6 (CS) Level 3, Criteria A<br>EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A |
| <b>Shock</b>   | IEC 60068-2-27   |
| <b>Freefall</b>  | IEC 60068-2-32   |
| <b>Vibration</b>   | IEC 60068-2-6  |

## Dimensions



## Ordering Information

| Model Name | Total Port | RJ45          |           | Certification            |         | Operating Temperature |
|------------|------------|---------------|-----------|--------------------------|---------|-----------------------|
|            |            | 10/100Base-TX | EN50121-4 | EN61000-6-2, EN61000-6-4 | CE, FCC |                       |
| IFS-800    | 8          | 8             | V         | V                        | V       | -10~60°C              |
| IFS-800-E  | 8          | 8             | V         | V                        | V       | -40~75°C              |

## Optional Accessories

### Wall Mount Kit

IND-WMK01 Wall Mount kit for Industrial product (184x30mm) (Narrow)

### Industrial Power Supply

MDR-20-24 Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 24VDC, 24W, -20 ~ 70°C

MDR-40-48 Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 48VDC, 40W, -20 ~ 70°C