TERRABIT

INDUSTRIAL MEDIA CONVERTER

PD2-H02-FL20-1000I
1000BASE-Fx to 10/100/1000Base-Tx

DESCRIPTION

- The PD2-H02-FL20-1000I industrial Gigabit media converters are designed to provide reliable and stable 10/100/1000BaseT(X) to 1000Base-FX SFP media conversion in harsh industrial environments. PD2-H02-FL20-1000I supports redundant power inputs, IP40 protection class and meets EMC industrial level 4 requirements. Its operating temperature ranges from -40 to 85°C. Belonging to Terrabit Ethernet switches series, PD2-H02-FL20-1000I full load power consumption is as low as 2.5 watts.

- PD2-H02-FL20-1000I is a "green", embedded industrial Ethernet module with low-power consumption. It is applicable to wind power, subway PIS, power SCADA, sewage treatment, metallurgy, intelligent transportation, rail transit, and many other industries. PD2-H02-FL20-1000I Embedded Ethernet Switching Module can be directly installed in the target device.

MAIN FEATURES

- Green Ethernet solution with ultra low power consumption design
- Both standard and wide operating temperature
- Complies with IEEE 802.3, IEEE 802.3u, IEEE802.3z, IEEE802.3ab, IEEE 802.3x auto-negotiation
- Extends distances ranging from 550m (multi-mode fiber) to 120km (single mode fiber)
- Supports auto MDI/MDIX function
- Status LED for easy monitoring of device status
- Supports up to 10K Byte Jumbo frames
- Support 8k MAC address
- IP40 protection class
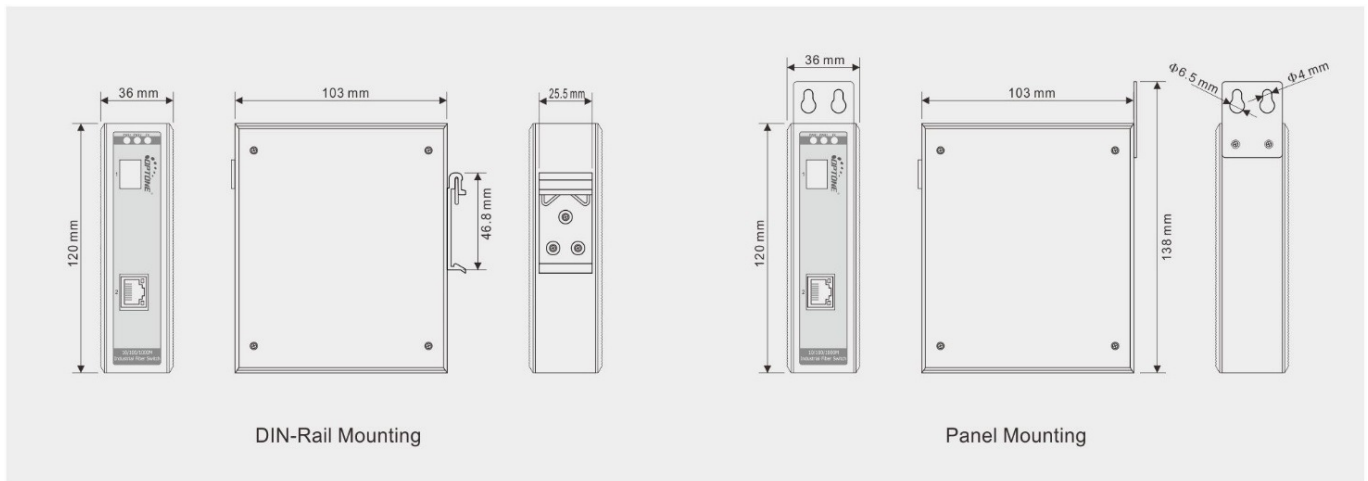- FCC Class A & CE approved

SPECIFICATIONS

Interface	1 x Ethernet port (RJ45) 10/100/1000Base-Tx 1 x Optical port 1000Base-Fx
Optical Port	Available for 1310nm and 1550nm Single mode, and 850nm Multi mode Transfer Distance: up to 120km Connectors: LC or SC Fiber core: 8.3µm, 8.7µm, 9µm and 10µm on single-mode fiber; 50, 62.5 and 100µm on multi-mode fiber
Ethernet Port	Standard: IEEE802.3, IEEE802.3u, IEEE 802.3ab, IEEE802.3x Available speed: force 10Mbps, force 100Mbps, force 1000Mbps and auto-detective 10/100/1000Mbps Full-Duplex and Half-Duplex auto-negotiation Connectors: RJ-45 Connector; MDI/MDI-X connection auto-sensing
Switch Properties	MAC Table: 8K Packet Buffer: 1Mbit Switching Delay: <5µs
LED Indicators	Power, Status, Speed, FX Link/Act, TX Link/Act
Power Requirement	Input: 220AC, 50-60Hz Consumption: MAX 4.5W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support
Physical Characteristics	Housing: Metal enclosure Protection Class: IP40 Dimensions: 36 x 120 x 103mm Weight: 0.42kg Installation: DIN-Rail or Panel mounting
Environmental Limits	Operating Temperature: -40°C to 85°C Storage Temperature: -40°C to 85°C Operating Humidity: 10% to 95% RH (non-condensing) Storage Humidity: 5% to 95% RH (non-condensing)

For enquires, please email to info@terrabitnetworks.com

INDUSTRIAL MEDIA CONVERTER

- Agency Approvals   FCC Part 15 of Class A & CE approved
- Industrial Standard   EMI: FCC/CE/LVD/EMC

                              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)

                              Shock: IEC 60068-2-27

                              Free Fall: IEC 60068-2-32

                              Vibration: IEC 60068-2-6

MECHANICAL DRAWING

DIN-Rail Mounting

Panel Mounting

ORDERING INFORMATION

- The PD2-H02-FL20-1000I   1000Base-Fx to 10/100/1000Base-Tx, wavelength 1310nm, single fiber upto 20Km

IMPORTANT NOTICE

- Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by Terrabit before they become applicable to any particular order or contract. In accordance with the Terrabit policy of continuous improvement specifications may change without notice.

- The publication of information in this data sheet does not imply freedom from patent or other protective rights of Terrabit or others. Further details are available from any Terrabit sales representative.