

FOCD-I-TGPS-SFP-90W

RUGGED MEDIA CONVERTER WITH IEEE 802.3af/at/bt POE INJECTOR



Overview

CXR FOCD-I-TGPS-SFP-90W functions as a robust media converter designed to operate in temperatures ranging from -20 to 60 °C. It facilitates the conversion from 100/1000Base-X SFP to a 10/100/1000Base-T RJ-45 port, fully compliant with the IEEE 802.3, 802.3u, 802.3ab, and 802.3z standards.

The **FOCD-I-TGPS-SFP-90W** is compatible with the IEEE 802.3af/at/bt standard, allowing it to deliver a maximum of 90 watts of Power over Ethernet (PoE) output to powered devices (PDs) through a Cat5/5E cable in the RJ-45 port. This capability significantly simplifies wiring configurations.

While functioning as an unmanaged media converter, the **FOCD-I-TGPS-SFP-90W** offers user-friendly configuration and monitoring through a DIP switch and LED indicator on its panel. The DIP switch allows control over various functions, such as Alarm, PSE Auto Power Off, Data-diode, and more.

With these features, **FOCD-I-TGPS-SFP-90W** not only become a user-friendly product, but also a comprehensive solution.

CONNECTIVITY

1 x 100/1000Base-X SFP
to
1 x 10/100/1000Base-T
RJ-45
with IEEE802.3af/at/bt
PoE Injector

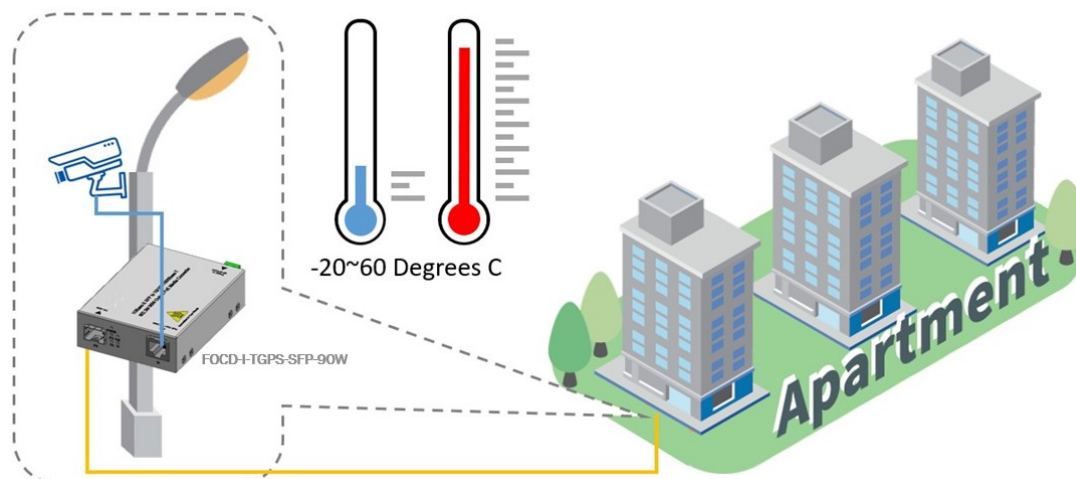
RUGGED

-20 to +60°C

Applications

Target Applications

- FTTX Metro Ethernet Implementations.



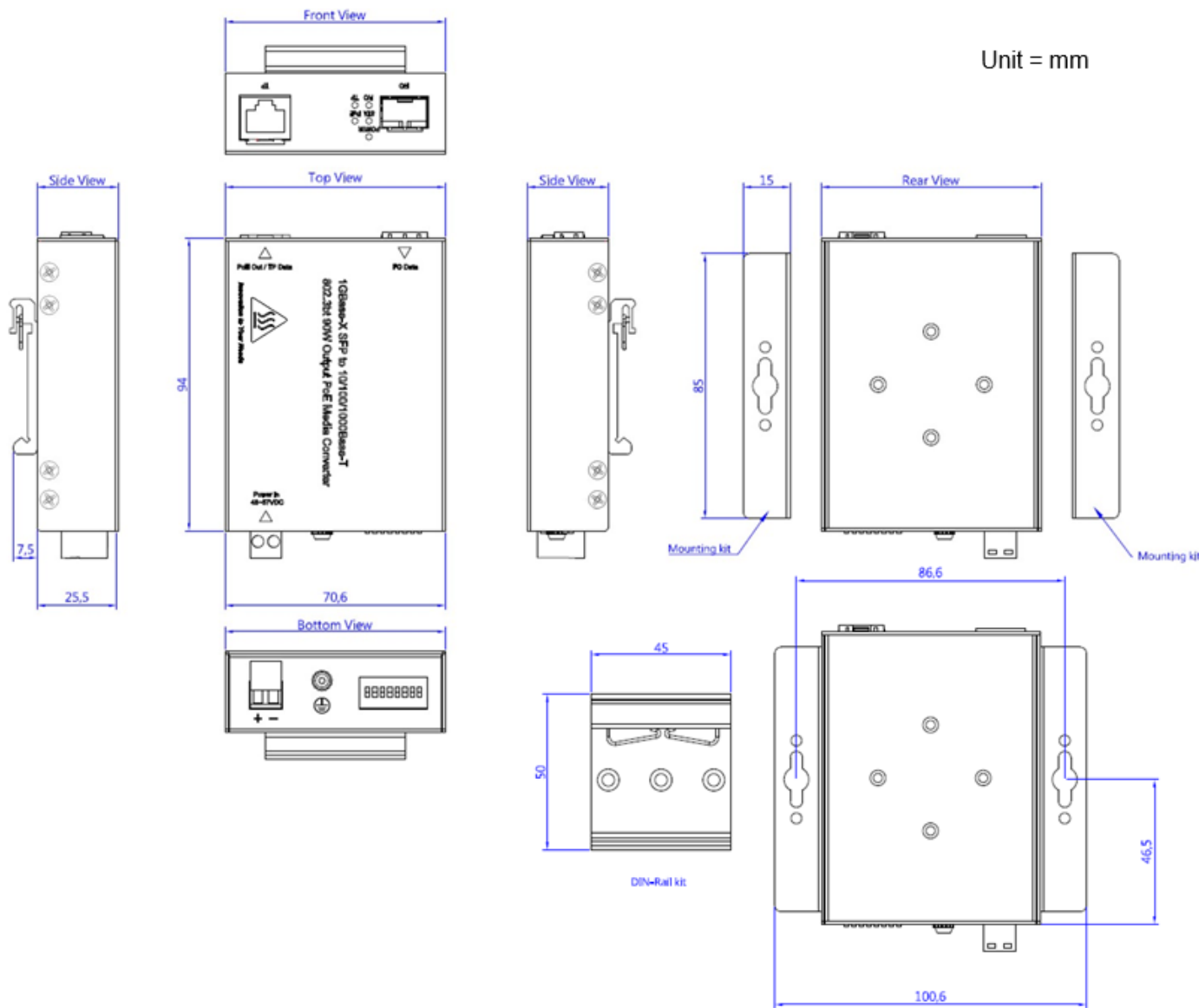
Specifications

Specifications	
Interfaces	<ul style="list-style-type: none"> • 1 x 100/1000Base-X SFP Slot • 1 x 10/100/1000Base-TX RJ-45 with IEEE 802.3af/at/bt injector, up to 90-watt output
Standards	<ul style="list-style-type: none"> • IEEE 802.3 10Base-T • IEEE 802.3u 100Base-TX • IEEE 802.3ab 1000Base-T • IEEE 802.3z 1000Base-X • IEEE 802.3af Power on Ethernet • IEEE 802.3at Power on Ethernet+ • IEEE 802.3bt Power on Ethernet++
H/W Specifications	<ul style="list-style-type: none"> • MAC Address Table: 2K • Non-blocking Switching Fabric: 4Gbps • Throughput @ 64Bytes: 2.9 Mpps • Jumbo Frame: 9K Bytes • Packet Buffer: 1Mbit • Store and Forward Switching Mechanism • Auto-Cross over for MDI/MDI-X in TP port • Auto-Negotiation in TP Port • Full/Half Duplex Mode Operation • Power Pin assignment IEEE 802.3af/at (mode A/end span): 1/2(-), 3/6(+) Max. PoE output budget: 15/30W IEEE 802.3bt (4-pair mode, 4-pair mode mandatory): 1/2(-), 3/6(+) & 4/5(-), 7/8(+) Max. PoE output budget: 90W
Forwarding/Filter Rate	<ul style="list-style-type: none"> • 10M: 14,880/14,880pps • 100M: 148,800/148,800pps • 1000M: 1,488,000/1,488,000pps
DIP Switch	<ul style="list-style-type: none"> • Auto/Force Mode for F/O • Enable/Disable Data-diode • Data-diode Direction <ul style="list-style-type: none"> - Block Fiber to RJ-45 direction - Block RJ-45 to Fiber direction • Enable/Disable Link alarm • Enable/Disable PSE Auto Power Off (PAPO)*
LED	<ul style="list-style-type: none"> • Power • Status • TX Link/Act • F/O Link/Act • PoE
Operating Environment	<ul style="list-style-type: none"> • Operating Temperature: -20 to +60°C • Storage Temperature: -40 to +85°C • Humidity: 5% - 95 % (non-condensing)
Physical	<ul style="list-style-type: none"> • Dimensions (WxDxH): 71x94x26mm • Weight: 220g
Safety	<ul style="list-style-type: none"> • CE • FCC Class A
Power Supply	<ul style="list-style-type: none"> • DC Input: 48~57V (2-pin removable terminal block)** • Max. Power Consumption: 102 watts (348 BTU/hr)
Installation Method	<ul style="list-style-type: none"> • Flat type DIN-rail kit • Flat type wall-mount kit • Magnetic-mount kit (optional) • Slim type DIN-rail kit (optional) • Slim type wall-mount kit (optional)

* Only operates when the fiber interface link goes down by the link alarm function.

** >50VDC for 802.3at PoE+ and >52VDC for 802.3bt PoE++ output recommended

Dimensions



Ordering Information

Part Number	Designation
FOCD-I-TGPS-SFP-90W	Rugged media converter DIN rail format, 1 x 10/100/1000BT with IEEE 802.3af/at/bt with PoE injector to 1 x 100/1000-X w/o SFP module, -20 to+60°C, 48~57VDC power supply input available on terminal block. Metal housing.



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