

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

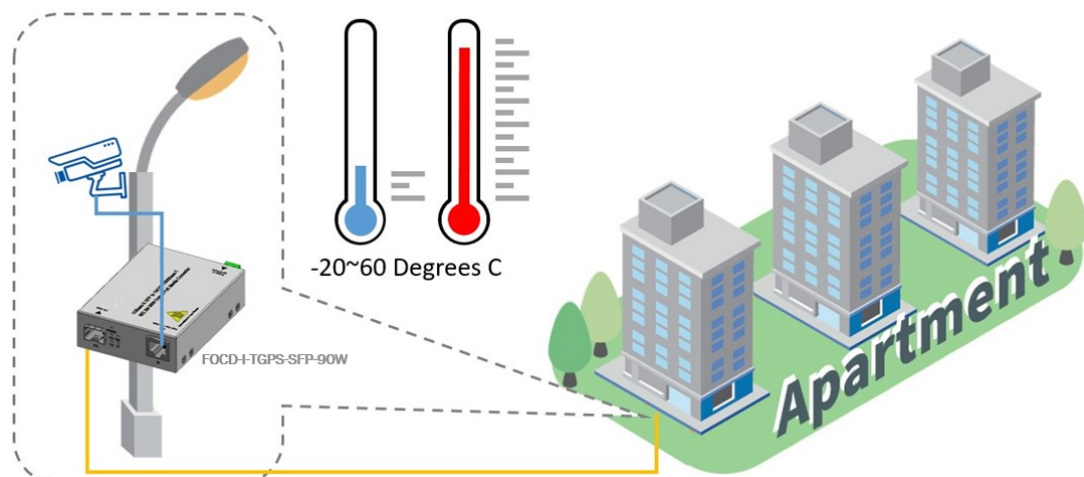
RUGGED

-20 to +60°C

Applications

Target Applications

- FTTX Metro Ethernet Implementations.



Specifications

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Interfaces	<ul style="list-style-type: none"> • 1 x 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



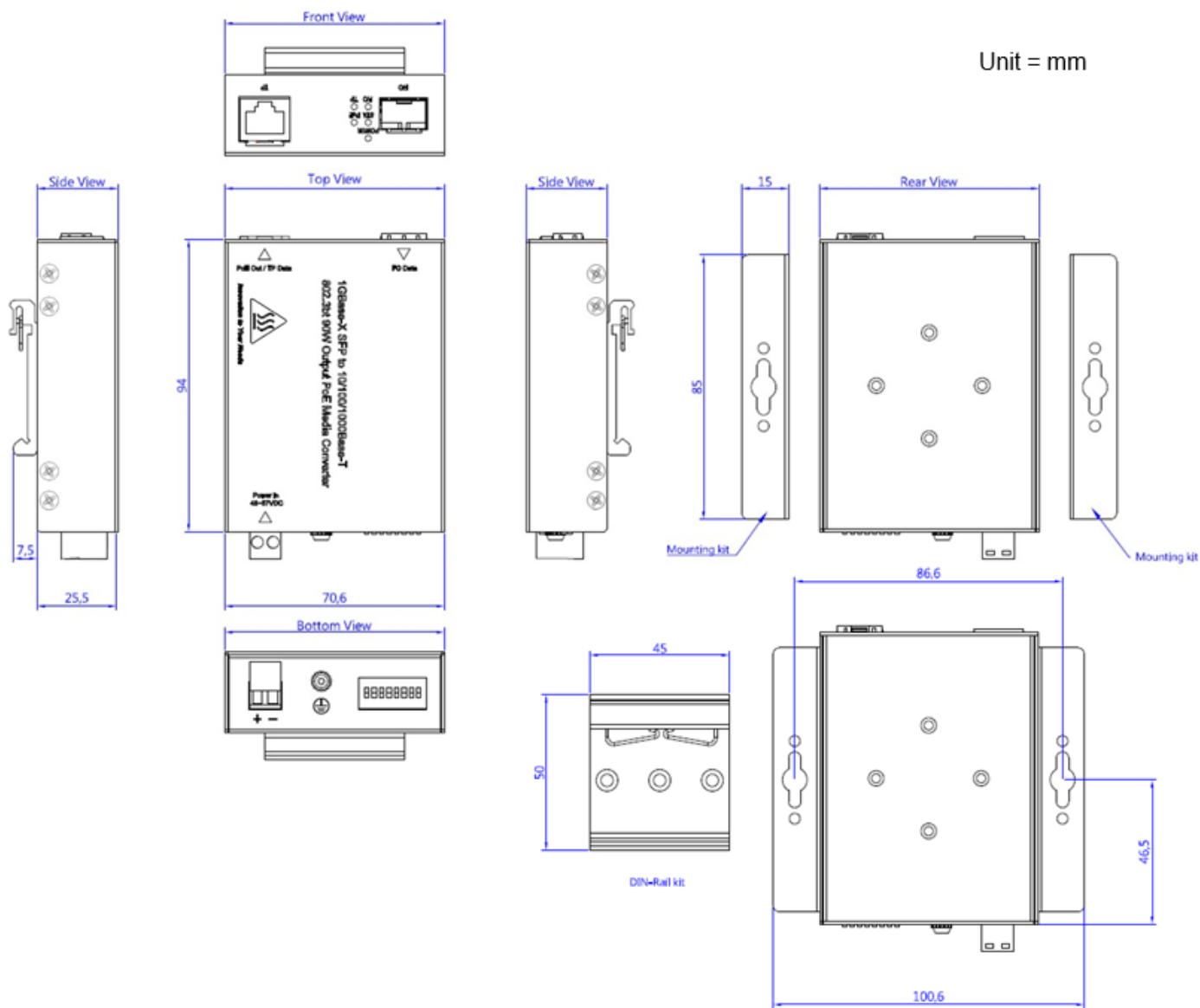
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Smart Solutions for Smart Networks

The information contained in this document are not contractual. CXR continuously improves its products. Specifications are subject to change without notice.

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 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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