



FOCD-H-10GTPS-SFP+

RUGGED MEDIA CONVERTER



Description

CXR **FOCD-H-10GTPS-SFP+** is a high-performance media converter designed to provide seamless connectivity between 10G fiber networks and multi-gigabit Ethernet devices. It supports operation in a wide temperature range from -20 to 60°C, ensuring reliable performance in demanding environments.

1 x 10/1GBase-X SFP+

1 X
10G/5G/2.5G/1G/100M
BASE-T
RJ-45

IEEE 802.3AF/AT/BT
POE INJECTOR

Rugged Media
Converter

Interface

The **FOCD-H-10GTPS-SFP+** features one 10/1GBase-X SFP+ slot and one 10G/5G/2.5G/1G/100MBase-T RJ-45 port, offering compatibility with a wide range of network infrastructures. This allows efficient data transmission, making it an ideal solution for high-speed networking applications, such as surveillance and outdoor network deployments.

Power over Ethernet and Monitoring

Supporting IEEE 802.3af/at/bt standards, the **FOCD-H-10GTPS-SFP+** delivers up to 60 watts of PoE power through the RJ-45 port, simplifying power distribution to connected powered devices (PDs). It also features intuitive LED indicators and a DIP switch for easy configuration and real-time status monitoring. The TP/FO alarm function enhances network reliability by providing alerts for link failures, enabling prompt troubleshooting.

Ideal Applications

With a 40Gbps internal fabric, support for 16K jumbo frames, and auto-negotiation capabilities, the **FOCD-H-10GTPS-SFP+** efficiently handles high-bandwidth data transmission in challenging environments. Its extended temperature tolerance makes it for outdoor deployments, transportation systems, and other applications requiring stable operation under varying conditions.

As for the installation, this model offers flexible options— including wall mounting, DIN-rail mounting, and magnetic mounting— making it adaptable to various deployment scenarios.

Specifications

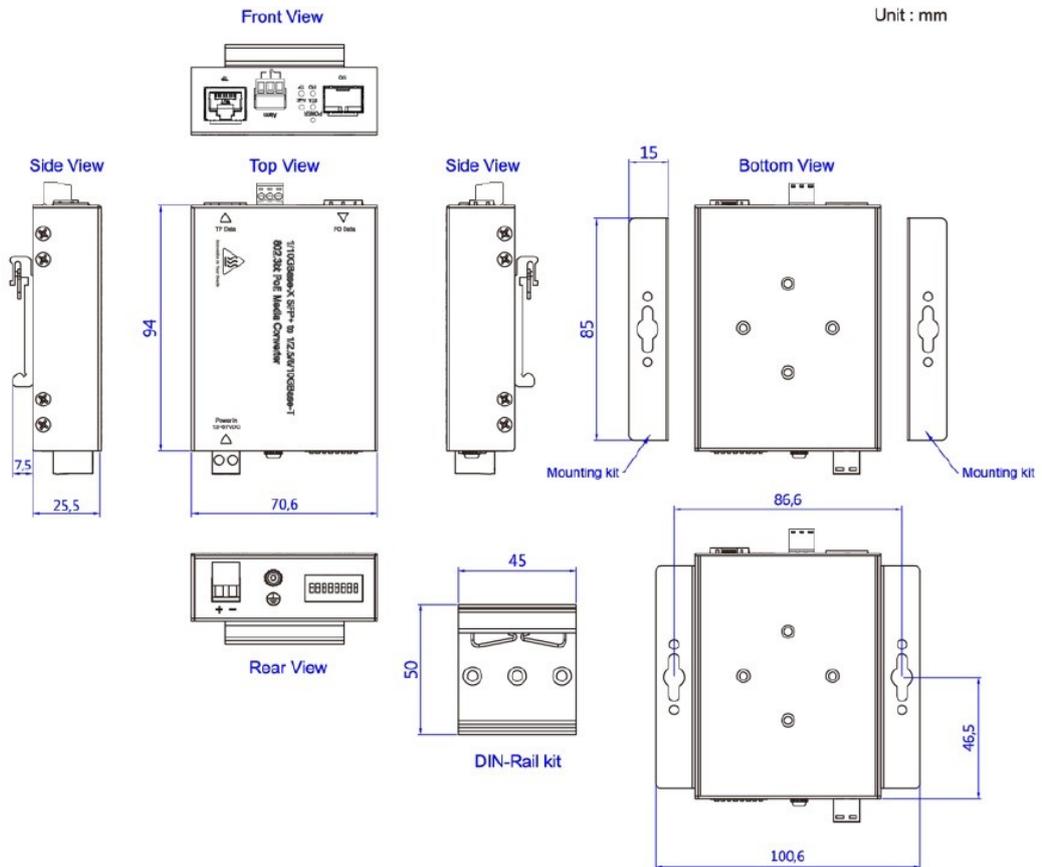
Item		FOCD-H-10GTPS-SFP+
Interface	RJ-45 Port	1 x 10G/5G/2.5G/1G/100MBase-T RJ-45 with IEEE 802.3af/at/bt injector, up to 60W PoE output
	Fiber Port	1 x 10/1GBase-X SFP+
	Terminal Block	1 x Digital Output (Relay Alarm), Relay output with current carrying capacity of 1A @24VDC
H/W Specification	Standards	<ul style="list-style-type: none"> • IEEE 802.3an 10GBase-T • IEEE 802.3ae 10GBase-R • IEEE 802.3bz 2.5G/5GBase-T (NBase-T) • IEEE 802.3ab 1000Base-T • IEEE 802.3z 1000Base-X • IEEE 802.3u 100Base-TX • IEEE 802.3x flow control • IEEE 802.3af Power over Ethernet • IEEE 802.3at Power over Ethernet + • IEEE 802.3bt Power over Ethernet ++
		<ul style="list-style-type: none"> • MAC Address Table: 4K • Non-blocking Switching Fabric: 40Gbps • Throughput @ 64Bytes: 29.76Mpps • Jumbo Frame: 16K Bytes • Packet Buffer: 8Mbit • 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 over Ethernet	Power Pin Assignment	<ul style="list-style-type: none"> • 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 mandatory) 1/2(-), 3/6(+) & 4/5(+), 7/8(-) Max. PoE output budget: 60W
Forward/Filter Rate		<ul style="list-style-type: none"> • 10G: 14,880,000/14,880,000pps • 5G: 7,440,000/7,440,000pps • 2.5G: 3,720,000/3,720,000pps • 1000M: 1,488,000/1,488,000pps • 100M: 148,800/148,800pps
LED		<ul style="list-style-type: none"> • Power, Status, PoE • TP Link/Act/Speed, F/O Link/Act/Speed
DIP Switch		<ul style="list-style-type: none"> • Max. TP speed up to 2.5/10Gbps • Force/Auto Mode for F/O • F/O speed 1Gbps/10Gbps • Link Alarm Enable/Disable • Fault Alarm for TP or F/O port • PSE Auto Power Off (PAPO) Enable/Disable *

* Operates when the fiber interface link goes down, with link alarm function enabled.

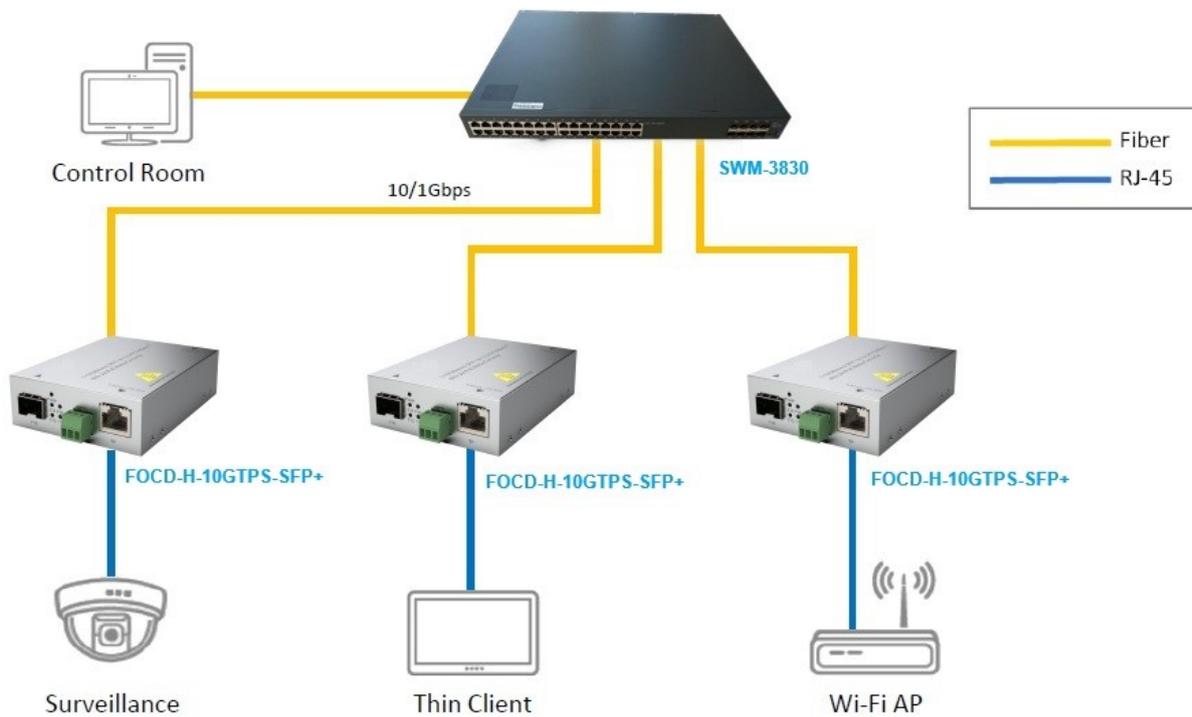
Installation Method	<ul style="list-style-type: none"> • Flat type DIN-rail kit • Flat type wall-mount kit • Magnetic-mount kit (optional) • Slim type DIN-rail kit (optional) • Slim type wall-mount kit (optional)
Power Requirement	<ul style="list-style-type: none"> • Power Input: 48~57 VDC ** (2-pin removable terminal block) • Max. Power Consumption: 108W (368.5 BTU/h)
Environmental Condition	<ul style="list-style-type: none"> • Operation: -20 °C~60 °C • Storage: -30 °C~70 °C • Humidity: 5%~90% RH, Non-Condensing
Dimension & Weight	<ul style="list-style-type: none"> • Size: 71 x 94 x 26mm (W x D x H) • Weight: 270g • Housing: Aluminum(Upper), Iron(Bottom)
Standards and Certifications	<ul style="list-style-type: none"> • CE/FCC Class A • Safety: EN/IEC 62368-1 • EMC: EN 55032 / EN 55035 • VCCI/UKCA/RCM • RoHS 2.0

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

Dimension



Application Diagram



Ordering Informations

Reference	Description
FOCD-H-10GTPS-SFP+	Industrial Ethernet media converter unmanageable DIN-rail, multi-rate RJ45 100/1G/2,5G/10G to SFP+ 1G / 10GBase-X without SFP module, metal box support -40 to +75°C, PoE IEEE 802.3af/at/bt, power supply 48 to 57vdc



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