CORNING

Everon 10G HPoE Media Converter (1LAN-FMC-10G)

The Corning 10G HPoE Media Converter is the smallest industrial-grade 10G Ethernet media converter (from 10000Base-X SFP+ to 10G/5G/2.5G/1G/100M Base-T Copper) with 802.3bt Power over Ethernet Plus Plus (PoE++) injector function to deliver up to 90W of power output and high data transmission speed to PDs(powered devices) installed in a remote area where sufficient and reliable power input is required, providing non-blocking wire-speed performance and great flexibility for 10G Ethernet extension in harsh industrial environment. It is equipped with one 10G/5G/2.5G/1G/100M Base-T RJ45 copper interface and one 10GBase-X SFP+ fiber optic interface delivered in an IP30 rugged but compact sized strong case with redundant power system (44~57VDC).



It is Ideal for wide range of applications from copper to fiber media conversion wherever 10GE bandwidth is required in climatically demanding environments with wide temperature ranges.

Features	Benefits
Physical Port	 1 port 10G/5G/2.5G/1G/100M Base-T RJ45 interface with IEEE 802.3bt PoE++ injector function 1 port 10GBase-X SFP+ interface
Power over Ethernet	 Complies with IEEE 802.3bt PoE++ Type-4 PSE Backward compatible with IEEE 802.3af/at PoE+ standard Supports PoE Power up to 90 watts for PoE port Provides DC 55V power over RJ45 Ethernet cable to PD with Ethernet port Auto-detect IEEE 802.3bt equipment and incorrect installation damage protection Remote powering of connected PD up to 100m
Layer 2 Features	 IEEE 802.3an/802.3ae Ethernet standard compliant Supports auto-negotiation and 10Gbps full duplex mode Prevents packet loss with IEEE 802.3x pause frame flow control (full-duplex) Automatic address learning and address aging
Industrial Case and Installation	 Slim-type IP30 metal case DIN rail and wall-mount design 44~57V DC redundant power with reverse polarity protection 100 meters over Cat6A at 10Gbps Plug and Play Installation

Specifications |

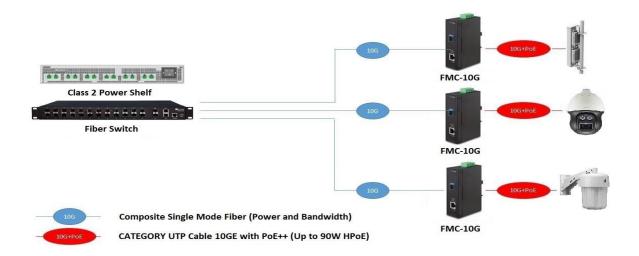
Fiber Optical Interface Reconnector Alarm LED Pounction Enclosure Installation Dimensions (W x D x H) Weight Power Requirements Power Consumption Specifications Flow Control Fabric 1. Reconnector Reconnector Pi Alarm Pri 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	x 10G/5G/2.5G/1G/100M Base-T RJ45, Auto-MDI/MDI-X, auto-negotiation x 10GBase-SR/LR SFP+ interface emovable 6-pin terminal block in 1/2 for Power 1, Pin 3/4 for fault alarm, Pin5/6 for Power 2 rovides one relay output for power failure WR, SYS, Fault Alarm, PoE++ Usage, 10G RJ45 port LNK/ACT, 0G SFP+ port LNK/ACT P30 type metal case PIN-rail and wall mount 03 x 1.48 x 4.21 in (77 x 37.5 x 107mm) 70g 4~57V DC, supports reverse polarity protection ystem ON without loading: 48V DC: 4.36W ull loading with PoE++: 48V DC: 98W EEE 802.3x pause frame for full duplex 0Gbps 0G/5G/2.5G/1G/100M Base-T:
Connector Alarm Pro LED Policy Enclosure Installation Dimensions (W x D x H) Weight Power Requirements Power Consumption Sy Fu Specifications Flow Control IE Fabric 20 10	in 1/2 for Power 1, Pin 3/4 for fault alarm, Pin5/6 for Power 2 rovides one relay output for power failure WR, SYS, Fault Alarm, PoE++ Usage, 10G RJ45 port LNK/ACT, 0G SFP+ port LNK/ACT P30 type metal case OIN-rail and wall mount 03 x 1.48 x 4.21 in (77 x 37.5 x 107mm) 70g 4~57V DC, supports reverse polarity protection ystem ON without loading: 48V DC: 4.36W ull loading with PoE++: 48V DC: 98W EEE 802.3x pause frame for full duplex 0Gbps
Connector Pi Alarm Pro LED Pv 10 Enclosure IP Installation Dimensions (W x D x H) 3.0 Weight 27 Power Requirements 44 Power Consumption Sy Fu Specifications Flow Control IE Fabric 20 10	in 1/2 for Power 1, Pin 3/4 for fault alarm, Pin5/6 for Power 2 rovides one relay output for power failure WR, SYS, Fault Alarm, PoE++ Usage, 10G RJ45 port LNK/ACT, 0G SFP+ port LNK/ACT P30 type metal case PIN-rail and wall mount 03 x 1.48 x 4.21 in (77 x 37.5 x 107mm) 70g 4~57V DC, supports reverse polarity protection ystem ON without loading: 48V DC: 4.36W ull loading with PoE++: 48V DC: 98W EEE 802.3x pause frame for full duplex 0Gbps
Alarm Process LED PV 10 Enclosure IP Installation DI Dimensions (W x D x H) 3.0 Weight 27 Power Requirements 44 Power Consumption Sy Fu Specifications Flow Control IE Fabric 20	rovides one relay output for power failure WR, SYS, Fault Alarm, PoE++ Usage, 10G RJ45 port LNK/ACT, OG SFP+ port LNK/ACT P30 type metal case OIN-rail and wall mount 03 x 1.48 x 4.21 in (77 x 37.5 x 107mm) 70g 4~57V DC, supports reverse polarity protection ystem ON without loading: 48V DC: 4.36W ull loading with PoE++: 48V DC: 98W EEE 802.3x pause frame for full duplex OGbps
LED PN 10 Enclosure IP Installation DI Dimensions (W x D x H) 3.0 Weight 27 Power Requirements 44 Power Consumption Sy Fu Specifications Flow Control IE Fabric 20 10	WR, SYS, Fault Alarm, PoE++ Usage, 10G RJ45 port LNK/ACT, 0G SFP+ port LNK/ACT P30 type metal case OIN-rail and wall mount 03 x 1.48 x 4.21 in (77 x 37.5 x 107mm) 70g 4~57V DC, supports reverse polarity protection ystem ON without loading: 48V DC: 4.36W ull loading with PoE++: 48V DC: 98W EEE 802.3x pause frame for full duplex 0Gbps
Enclosure IP Installation DI Dimensions (W x D x H) 3.0 Weight 27 Power Requirements 44 Power Consumption Sy Fu Specifications Flow Control IE Fabric 20	OG SFP+ port LNK/ACT P30 type metal case PIN-rail and wall mount O3 x 1.48 x 4.21 in (77 x 37.5 x 107mm) 70g 4~57V DC, supports reverse polarity protection ystem ON without loading: 48V DC: 4.36W ull loading with PoE++: 48V DC: 98W EEE 802.3x pause frame for full duplex OGbps
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Specifications Flow Control IE Fabric 20	ull loading with PoE++: 48V DC: 98W EEE 802.3x pause frame for full duplex OGbps
Specifications Flow Control IE Fabric 20	EEE 802.3x pause frame for full duplex OGbps
Flow Control IE Fabric 20	0Gbps
Fabric 20	0Gbps
10	'
	0G/5G/2.5G/1G/100M Base-T:
50 2. 10 Ca El.	OG - Cat 6A/7 G - Cat 6/6A/7 .5G/1G - Cat 5e/6/6A/7 OOM - Cat 5/5e/6/6A/7 at 5/5e/6/6A/7 UTP cable (max 100 meters) IA/TIA-568 100-ohm STP (max 100 meters) OGBase-LR/SR/BX: 0/125um or 62.5/125um multi-mode fiber optic cable, up to 300m
	/125um single-mode fiber optic cable, up to 80km
Power over Ethernet	
PoE Standard IE	EEE 802.3bt Power over Ethernet Plus Plus (HPoE)
PoE Power Output 90	0W
PoE Power Supply Type Er	nd-span + Mid-span
S	Node A End-span: 1/2(-), 3/6(+)
	Node B Mid-span: 4/5(+), 7/8(-)
	0 watts@44~57V DC input
Standards Conformance	
IE IE IE	EEE 802.3u 100Base-T EEE 802.3ab 1000Base-T EEE 802.3bz 2.5G/5GBase-T EEE 802.3an 10GBase-T EEE 802.3ae 10Gbps Ethernet EEE 802.3af Power over Ethernet
Regulatory Compliance FC	CC Part 15 Class A
Environment	
·	perating: -10°C ~ 65°C 14°F ~149°F torage: -20°C ~ 85°C -4°F~185°F
	perating: 5% ~ 95% RH Non-condensing

Application |

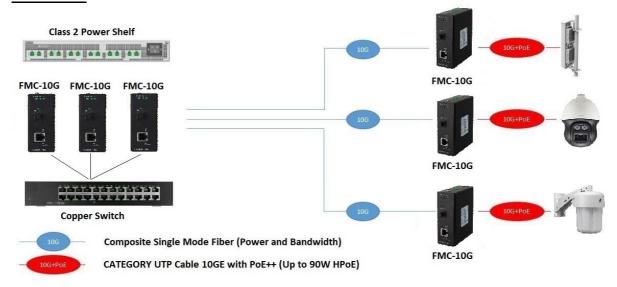
The Corning FMC-10G lends itself to 2 main methods of deployment. Single sided - extending the reach of an optical switch.

Double sided - extending the reach of a copper based switch.

Method 1:



Method 2:



Ordering Information

P/N	Short Description
1LAN-FMC-10G	10G Fiber Media Converter, 1x10G RJ-45, 802.3bt HPoE
1LAN-FMC-DINBRACKET	Din Rail Accessory Bracket for FMC (48.4 x 32 x 9mm) (15g)
1LAN-SDAN-DIN1160	EN 50022 – 35 × 7.5 (1M) (DIN RAIL)
PSM-I	Power Supply Module
PSU6-1U	Power Supply Unit
1LAN-D600-ENC-3	NEMA4 enclosure
	10GBASE-BX10-D BiDi SFP+ 1330nm-TX/1270nm-RX 10km DOM Transceiver
1LAN-SFPP-10G-BXD-I	Module
	10GBASE-BX10-U BiDi SFP+ 1270nm-TX/1330nm-RX 10km DOM Transceiver
1LAN-SFPP-10G-BXU-I	Module
1LAN-SFPP-10LR	10Gb/s SFP+ Transceiver module, SMF, 1310nm, 10km



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