10G Media Converter

FMC-10GC

10G/5G/2.5G/1G/100M Copper to 10GBASE-R SFP+ Media Converter



The 10G Media Converter, FMC-10GC is equipped with one 10G/5G/2.5G/1G/100BASE-T auto-negotiation port and one 10GBASE-R SFP+ slot. This converter uses Cat.6a/Cat 7 twisted pair cable as copper transmission media with RJ-45 and 10G optical solution with SFP+ LC connector. The data stream can be converted bi-directionally from 10G Base-T to 10G Base-R and vice versa. With full duplex wire speed forwarding capability between these two media, the FMC-10GC brings you the best and simplest solution for the 10G Ethernet conversion between copper wire and fiber.

Features

- 1× 10G/5G/2.5G/1G/100BASE-T RJ45 interface with auto MDI/MDI-X function
- 1× 10GBASE-X SFP+ slot interface
- Supports auto-negotiation and 100Mbps and 1/2.5/5/10Gbps full duplex mode
- 16K jumbo frame size support
- Wall-mount design
- Loopback Test
- Link Fault Pass Through
- Supports USB console for set up and status checking
- Supports DWDM Tunable SFP+
- Supports Energy, Efficient, Ethernet (EEE)
- Supports Cable Diagnostic
- Supports Pattern Test
- Supports Local F/W upgrade

Specifications

Copper Interface	1 × 10G/5G/2.5G/1G/100BASE-T RJ45
Fiber Optic Interface	1 × 10GBASE-R SFP+ slot
LED	PWR, LFP, FX Link, FX Speed, LAN Link, LAN Speed
Switch Processing Scheme	Store and Forward Switching
Enclosure	Compact-sized metal case
Installation	Desktop, wall mountable
Dimensions (W×D×H)	95 × 23 × 73.4mm
Weight	280g
Power Requirements	12VDC / 1A
Power Consumption	6W (max)
Fabric	20Gbps
Jumbo Frame	16K
Regulatory Compliance	FCC Part 15 Class A, CE
Operating Temperature	0 ~ 45 °C
Storage Environment	-10 ~ 70 °C
Operating Humidity	5 ~ 95% non-condensing
Storage Humidity	5 ~ 95% non-condensing
Standards Compliance	IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3bz 2.5G/5GBASE-T
	IEEE 802.3an 10GBASE-T, IEEE 802.3ae 10Gbps Ethernet over Fiber
Network Cable	10GBase-T : 100meters over CAT6A and CAT7, 55meters over CAT6, Best Effort over CAT5e
MTBF	65,000 hrs

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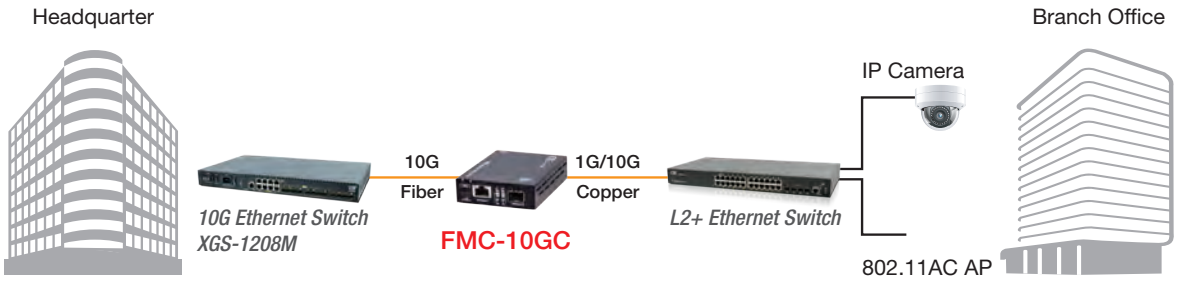
Application



Ordering Information

Model Name	Description
FMC-10GC	10G/5G/2.5G/1G/100M RJ45 to 10GBASE-R SFP+ 10G Media Converter

NOTE:

Up to 5 FMC-10GC units can be installed in the FMC-CH17 chassis with a 65W power budget.

Up to 17 FMC-10GC units can be installed in the FMC-CH17 chassis with a 200W power budget.