

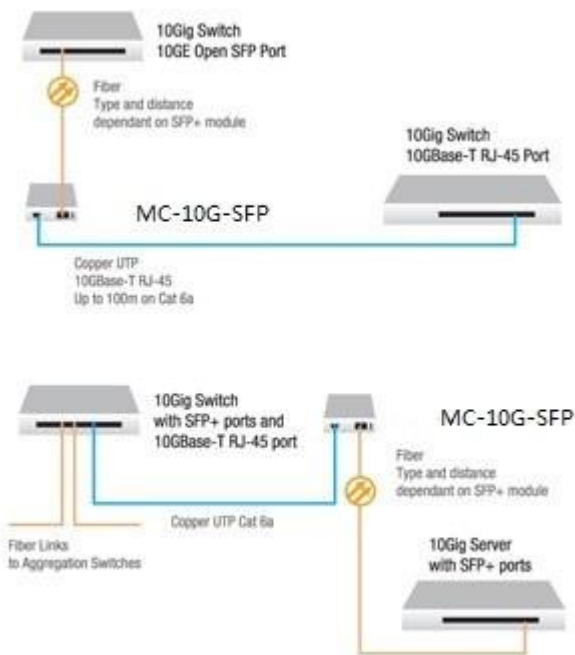
The CHMC-XG100 is a copper to fibre 10Gbps Ethernet media converter based on IEEE 802.3an and IEEE 802.3ae. It equips one 10GBase-T RJ45 port and one pluggable transceiver slot. The CHMC-XG100 brings you the best and simplest solution for the 10G Ethernet conversion between copper wire and fibre. The media converter is designed with a switch controller and buffer memory that connects two types segments to operate smoothly, it provides good stability and reliability for 10G network conversion and distance extension.

Key Features

- 10G Copper to 10GBASE-X SFP+ Media Converter
- SPOTLIGHT
- Comply with IEEE802.3an/ae standard
- Supporting full-duplex/half-duplex working mode with automatic negotiation function
- Direct/Cross Automatic Identification of Supporting Cables
- Supporting Loopback Return Test Function
- Supporting Jumbo Frames
- Transmission distance can be up to 80 km (single mode)
- Complete LED status indication for network diagnosis and fault checking
- Delta silent fan thermal dissipation design, greatly enhances chip stability
- Good flow control, with self-reset function, can effectively prevent the phenomenon of crash.
- Built-in power supply design without external power adapter
- Support plug-n-play



Applications



European Standards | Best Performance & Guaranteed Reliability | Lifetime Warranty | Fully Compliant With MSA

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Technical specifications

Standards	IEEE802.3, IEEE 802.3an, IEEE 802.3ae, IEEE 802.3az
Data Rate	10Gbps
Interface	
RJ45 port	1x10G, RJ45 Comply with 10GBase-T duplex Auto automatic recognition MDI/MDI-X Transmit 60m over Cat 6 cable
Fibre port	1x10G, SFP+ 10Gbase-SR/LR/ER/ZR, direct attached 10G copper Wavelength 850nm/1310nm/1550nm selectable Dual fibre/single fibre, WDM optional Transmission distance: 300m~80km
Status LEDs	1G: Lit when FX/TP speed is 1000Mbps 10G: Lit when FX/TP speed is 10G bps Link: Lit when FX/TP connection is good. Blinks: when FX/TP data is transmitting. PWR:Lit when +5V power is coming up
Performance	
Max frame size	9600K bytes
Data forward rate	148800000pps (64bytes/Frame)
Dimensions(WxDxH) mm	158×128×32mm
Power	Built-in power: input 85~265VAC, 50/60Hz
Power Consumption	10 watts(without module)
Copper Port supported	100m on Cat6a or higher UTP
Environment	Operating Temp: -10~55°C Storage Temp: -40 to +85°C Operating Humidity: 5% to 95% (non-condensing) Altitude: 0~ 10,000 feet
Shipping Weight	800g
MTBF w/Power Supply	Greater than 41,660 hours (MIL-HDBK-217F) Greater than 114,580 hours
MTBF w/o Power Supply	Greater than 250,000 hours (MIL-HDBK-217F) Greater than 687,000 hours
Regulatory Compliance	FCC Class A, EN55022 Class A, EN55024, CE Mark

Fibre Technical Specifications

	10G Base-SR	10G Base-LR
Connector type	LC	LC
Fibre type	Multi-mode	Single-mode
Wavelength	850nm	1310nm
Max Distance	<300M	10Km
Min TX PWR	-6.0dBm	-8.2dBm
Max TX PWR	-1.0dBm	-0.5dBm
Sensitivity	< -11dBm	< -14.4dBm
Link Budget	5.0dBm	6.2dBm

	10G Base-ER	10G Base-ZR
Connector type	LC	LC
Fibre type	Single-mode	Single-mode
Wavelength	1550nm	1550nm
Max Distance	40Km	80Km
Min TX PWR	-4.7dBm	0dBm
Max TX PWR	4dBm	5dBm
Sensitivity	< -15.8dBm	< -23dBm
Link Budget	11.1dBm	23.0dBm

Ordering information

CHMC-XG100-8M0.3	10B Base-T to 10G Base-X SFP+ slot, MM 850nm 300m
CHMC-XG100-3S10	10B Base-T to 10G Base-X SFP+ slot, SM 1310nm 10km