



10g media converter

10Gbase-TX to 10G base-FX

2019/5/15 Revise Jack.Chung 3C-LINK OPTO

1.25G/10G COOPER TO 10G BASE-X SFP+ MEDIA CONVERTER

Flexible and Reliable Network Distance Extension Solution

3C-LINK 3C-SFP0101TG Media Converter is equipped with one 10G/5G/2.5G/1G/100BASE-T auto-negotiation port and one 10GBASE-X SFP+ slot. It supports 10Gigabit Ethernet media conversion from copper 10GBASE-T to fiber multi-mode or single-mode, utilizing 10GBASE-SR or 10GBASE-LR SFP+ transceiver installed in the SFP+ slot to extend distances to servers, switches and patch panels. The deployment distance can be extended from 300 meters (multi-mode) to up to 60 kilometers (single-mode). They are designed for use in network environments where the ultra-high bandwidth provided by 10Gigabit Ethernet is required, for example, data center cloud computing, enterprise backbones, campus networks, and carrier infrastructure



High Performance 10Gbps Ethernet Capacity

3C-LINK 3C-SFP0101TG offers wire-speed packets transfer performance without the risk of packet loss. The high data throughput of the device makes it ideal for most Gigabit environments. With a 20Gbps internal fabric, 16K jumbo frame feature and auto negotiation support in its 10 Gigabit port, the 3C-SFP0101TG can handle extremely large amounts of data transmission in a secure topology linking to data center cloud computing, enterprise backbones, campus networks, and carrier infrastructure

Physical Port

- One 10G/5G/2.5G/1G/100BASE-T RJ45 interface with auto MDI/MDI-X function
- One 10GBASE-X SFP+ slot interface

Layer 2 Features

- IEEE 802.3u/802.3ab/802.3bz/802.3ae Ethernet standard compliant
- Supports auto-negotiation and 100Mbps half/full duplex and 1/2.5/5/10Gbps full duplex mode
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)
- 16K jumbo frame size support
- Automatic address learning and address aging

Case and Installation

- External 5V DC, 2A power supply
- DIN-rail and wall-mount design
- Supports 6000 VDC Ethernet ESD protection
- 100 meters over Cat 6A / Cat7 at 10Gbps
- 0 to 50 degrees C operating temperature
- Co-works with 3C-LINK's 19" Media Converter Chassis
- Plug and Play installation

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Robust Protection

The 3C-SFP0101TG provides contact discharge of $\pm 6\text{KV}$ DC and air discharge of $\pm 8\text{KV}$ DC for Ethernet ESD protection. It also supports $\pm 4\text{KV}$ surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.

Low Power Consumption

The 3C-SFP0101TG adopting the advanced chip technology has the power-saving feature like a low power consumption of only 3.75 watts when in full operation.

Easy Chassis Installation

The 3C-SFP0101TG Media Converter can be used as a stand-alone unit or as a slide-in module to the 3C-LINK Media Converter Chassis (3C-MC-R16 chassis series). The media chassis can assist in providing DC power to the 3C-SFP0101TG Media Converter to maintain the fiber-optic network at one centralized location. It can be DIN-rail or wall mounted for efficient use of cabinet space.



3C-SFP0101TGC Card type can plug into our 3C-MC-R16 Chassis

So that can mix work with 100M, 1000M Media converter card

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Specifications

Performance Data	Technical Indexes
Transmission Speed	10Gb/s
Protocols	IEEE802.3an(10Gbase-T),IEEE802.3ae(10Gbase-SR/LR/ER/ZR)
Access Type	10G LAN
Interface Type	Type: RJ45 To/From SFP+
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 IEEE 802.3x full-duplex flow control
Network Cables	10G/5G/2.5G/1G/100M BASE-T: 10G--Cat 6A/Cat 7 5G--Cat 6/Cat 6A/Cat 7 1G/2.5G--Cat 5e/Cat 6/Cat 6A/ Cat 7 100M--Cat 5/Cat 5e/Cat 6/Cat 6A/ Cat 7 Cat 5/5e/6/6A/7 UTP cable (100 meters, max.) EIA/TIA-568 100-ohm STP (100 meters, max.) 10GBASE-LR/SR/BX: 50/125μm or 62.5/125μm multi-mode fiber optic cable, up to 300m 9/125μm single-mode fiber optic cable, up to 80km
Maximum Packet Forwarding Rate	14,880,950/S
power requirement	Rack-mountable : AC 85 ~ 220V OR DC -48V Standalone: AC 220V OR DC -48V Power consumption: ≤5W
Work Environment	Operating Temp: 0~ 50 °C Storage Temp: -10~ 70 °C Humidity: 5%~90% (non-condensing)
Dimension	Card : 115mm(W) × 78mm(D) Standalone : 125mm(W)× 88mm (D) × 30mm (H)
Weight	0.6Kg

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Order information

Model	Product description
3C-SFP0101TG	10G SFP+ Slots Media converter. standalone type
	SFP+ 10G Available SFP+ Transceiver
3C-SFP+-SR	SFP+ 10GBASE-SR (DUAL LC/300M/850nm/Multi-Mode)
3C-SFP+-LR	SFP+ 10GBASE-LR (DUAL LC/10KM/1310nm/Single-mode)
3C-SFP+-ER	SFP+ 10GBASE-ER (DUAL LC/40KM/1550nm/Single-mode)
3C-SFP+-ZR	SFP+ 10GBASE-ZR (DUAL LC/80KM/1550nm/Single-mode)
3CC-SFP+-ER-XX	SFP+ 10GBASE-ER (DUAL LC/40KM/CWDM wavelength)
3CD-SFP+-ER-XX	SFP+ 10GBASE-ER (DUAL LC/40KM/DWDM wavelength)
3CD-SFP+-ZR-XX	SFP+ 10GBASE-ER (DUAL LC/80KM/DWDM wavelength)

