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BT-31G2F-M-S-D 3-PORT GIGABIT SFP MEDIA CONVERTER

Ideal for:

- Telecom
- Hotels & Resorts
- Universities
- Healthcare
- Public Places
- Airport
- Transport
- Industries

OVERVIEW

- **Highly Convenient and Distance Extendable**

The BT-31G2F-M-S-D Gigabit SFP Media Converter provides one TP and dual SFP ports to support conversion between 10/100/1000Base-T and 1000Base-X network. With the two 1000Base-SX / LX SFP ports, the BT-31G2F-M-S-D provides high reliability and flexibility to extend the media transmission distance up to 550 meters, 120km, or longer depending on the 1000Base-SX / LX SFP transceiver modules. It allows the two types of segment to connect easily, efficiently and inexpensively. 10/100/1000Base-T UTP Cable up to 100meters.

- **Easy & Chassis Installation**

The BT-31G2F-M-S-D can be used as a stand-alone unit or as a slide-in module to the N-net Media Converter Chassis, NT-R14 chassis. The BT-31G2F-M-S-D can be fed DC power from these media chassis and help the administrators to maintain the fiber-optic network at one central location. With the 3-Port Switch mode, they work in high performance Store and Forward mechanism, and prevent packet loss with IEEE 802.3x Flow Control (Full-Duplex) and Back Pressure (Half-Duplex) function.

- **Plug & Play**

As the BT-31G2F-M-S-D Media Converter fully complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T and IEEE 802.3z 1000Base-SX / LX, the Gigabit media conversion installation is quite quick and easy by simply plug and play

GENERIC FEATURES

- Complies with IEEE 802.3 10Base-T
- Complies with IEEE 802.3u 100Base-TX
- Complies with IEEE 802.3ab 1000Base-T
- Complies with IEEE 802.3z 1000Base-SX / LX
- IEEE 802.3x Full-Duplex Flow-Control, Back-Pressure in Half-Duplex eliminates packets loss

INTERFACE

- Dual 1000Base-SX / LX SFP Fiber optic, One 10 / 100 / 1000Base-T Copper
- Auto-Negotiation for 10 / 100Base-TX Half-Duplex or 10 / 100Base-TX Full-Duplex
- Supports Auto MDI/MDI-X function
- VLAN Tag, Multicast pass through
- 3-Port data auto-switching

MECHANICAL

- External 5V / 2A DC power supply
- LED indicators for easy network diagnosing
- Compact size
- Wall mounting and DIN-Rail supporting
- Compatible with N-net media converter chassis

BT-31G2F-M-S-D
3-PORT GIGABIT
SFP MEDIA
CONVERTER

TECHNICAL SPECIFICATION

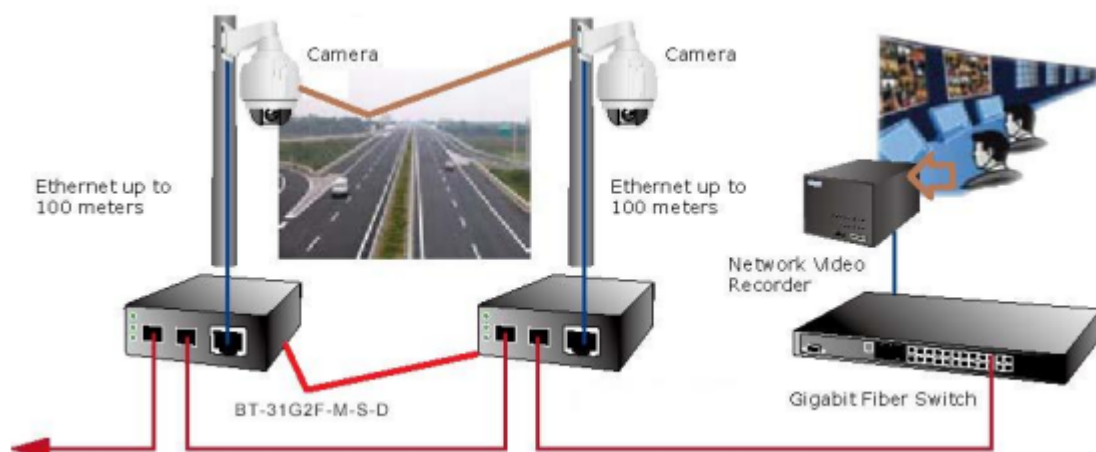| Parameter	Specifications
Access mode	10/100/1000Mbps Gigabit Ethernet
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX Fast Ethernet, IEEE802.3ab 1000Base-T , IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.3x flow control
Wavelength	Vary on SFP fiber module
Transmission distance	SFP port: Vary on SFP fiber module Category-5 twisted pairs: 100m
Port	One RJ45 port: Connecting with STP/UTP category-5 twisted pairs, EIA568A/B Two SFP port slots: Vary on SFP fiber module
BER	<10-9
MTBF	100,000 hours
Switch mechanism	Store-and-Forward
LED indicator	POWER (power supply), TP Speed (On:1000Mbps,Off:10/100Mbps) TP LINK/ACT , SD1(SFP Port 1 link/act LED), SD2(SFP Port 2 link/act LED)
Power supply	External: AC90~264V/DC100~380V input, 5V 2A output
Power consumption	Max. 5W
Operating temperature	-10~55ºC
Operating humidity	5%~90%
Maintaining temperature	-40~70ºC
Maintaining humidity	5% ~ 90% non-condensing
Dimensions	71mm (W)×94mm (D)×26 mm (H) (external power supply)
Warranty	2 Years (Expandable up to 5 Years)

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APPLICATION

- **GIGABIT ETHERNET DISTANCE EXTENSION**

The BT-31G2F-M-S-D directly converts the media from the Gigabit fiber to twisted pair interface. For example, it can be applied between the Gigabit Fiber Switch and the Gigabit Copper Network Card to perform media conversion and transmission. With the conversion, you can easily have the transmission distance of Gigabit copper cable extend up to 550 meters or longer (depends on SFP module). Built-in two SFP ports, the BT-31G2F-M-S-D can integrate with the existed copper Switch to provide Gigabit fiber transmission without the need of replacing with Gigabit fiber switch. By the BT-31G2F-M-S-D bringing Gigabit fiber transmission, it enables video stream be delivered from the camera up to 120km away to local Network Video Recorder.
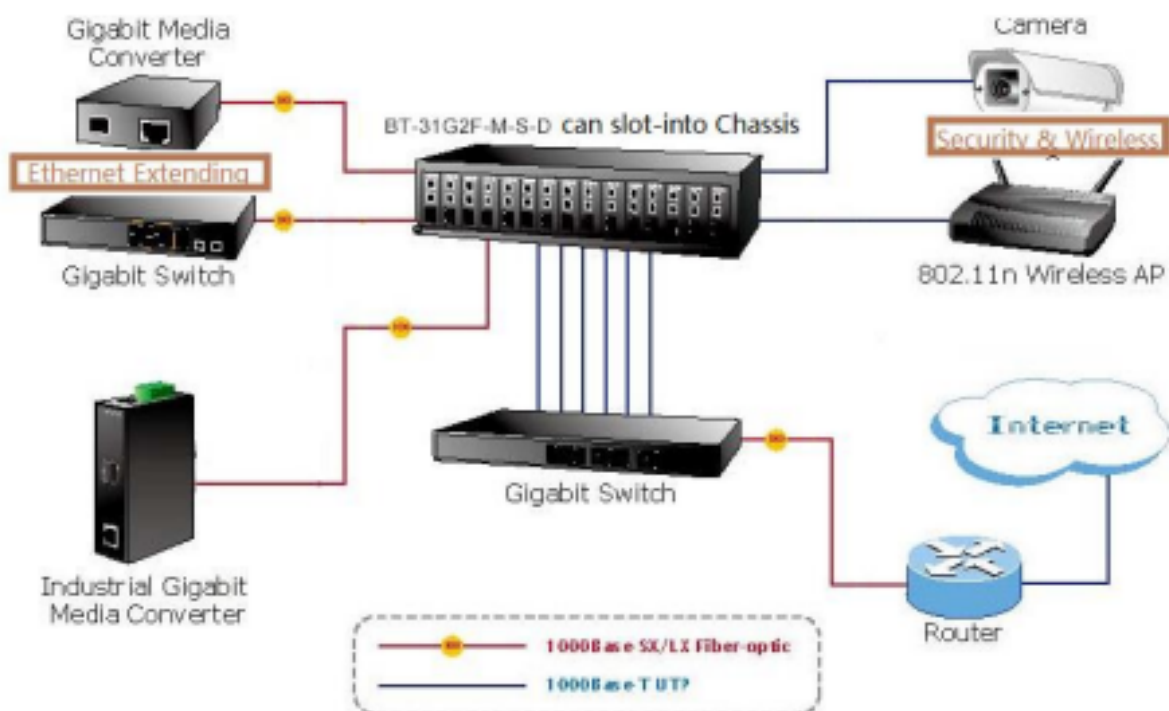
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- **FIBER-OPTIC NETWORKING FOR ISP, SYSTEM INTEGRATOR, ENTERPRISE, AND HOME**

With high performance of data transmission and easy installation, the BT-31G2F-M-S-D can build the ISP network solution of FTTH (Fiber to the Home), FTTC (Fiber to the Curb) and FTTB (Fiber to the Building). The BT-31G2F-M-S-D is also ideal for small office network environment of enterprises.