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10/100/1000M Gigabit Ethernet Media Converter BT31G1F-M-S-D

❖ Overview

BT31G1F-M-S-D 10/100/1000Mbps adaptive Gigabit Ethernet media converter adopts switching technology to fulfill media conversion. It complies with IEEE802.3, IEEE802.3u, IEEE802.3z and IEEE802.3ab standards. Presently it supports two types of media network connections: 10Base-T/100Base-TX/1000Base-T, and 1000Base-SX/LX, inter-converting electrical signals of 10Base-T/100Base-TX/1000Base-T twisted pairs with optical signals of 1000Base-SX/LX. It extends the transmission distance of network from 100m via copper cable to 20 km via fiber optical cable. It supports transmission in multi-mode dual fiber, single mode dual fiber and single mode single fiber.

❖ Picture

❖ Features

- ✧ Supporting inter-conversion between adaptive 10Base-T/100Base-TX/1000Base-T with 1000Base-SX/LX
- ✧ Supporting full-duplex and half-duplex and its auto-sensed
- ✧ Supporting auto-sensation of MDI/MDI-X, facilitating system commissioning and installation
- ✧ Supporting the transmission of extra-long VLAN packets
- ✧ Supporting Quality of Service (QoS) and ensuring the transmission of VoIP packets
- ✧ High compatibility capacity: compatible with the network card, hub, switch and repeater of other brands
- ✧ Options in single mode dual fiber, multi-mode dual fiber, and single mode in single fiber;
- ✧ Store-and-Forward mechanism

❖ DIP-Switch functions

DIP-Switch	Off(Default)	On
PIN-1	LFP function DISABLED	LFP function ENABLED
PIN-2	Flow-Control function DISABLED	Flow-Control function ENABLED

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❖ Specifications

Parameter	Specifications
Access mode	10/100/1000Mbps Gigabit Ethernet
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3ab 1000Base-T , IEEE802.3z 1000Base-SX/LX Gigabit Ethernet
Wavelength	850nm/1310nm/1550nm
Transmission distance	Multi-mode Dual-fiber: 220m (62.5/125μm)/550m (50/125μm) Single mode Dual-fiber: 20/40/60/80 Km Single mode Single fiber: 20/40/60/80 Km Category-5 twisted pairs: 100m
Port	One RJ45 port: Connecting with STP/UTP category-5 twisted pairs One optical port: Multi-mode Dual-fiber: SFP (50, 62.5/125μm) Single mode Dual-fiber: SFP (9/125μm) Single mode Single fiber: SFP (9/125μm)
Conversion means	Media conversion
BER	$<10^{-9}$
MTBF	100,000 hours
LED indicator	POWER (power supply), FX LINK (optical link action) TP LINK1000 (TP cable rate1000M), TP LINK100 (TP cable rate 100M) TP ACT (TP cable packet forwarding action)
Power supply	External: AC90~264V/DC100~380V input, 5V 1A output Internal: AC90~264V/DC100~380V input
Power consumption	5W
Operating temperature	-10~55ºC
Operating humidity	5%~90%
Maintaining temperature	-40~70ºC
Maintaining humidity	5% ~ 90% non-condensing
Dimensions	158mm(W)×146mm(D)×40mm(H) (internal power supply) 71mm (W)×94mm (D)×26 mm (H) (external power supply) 26mm(W)×88mm(D)×114mm(H) (card type)

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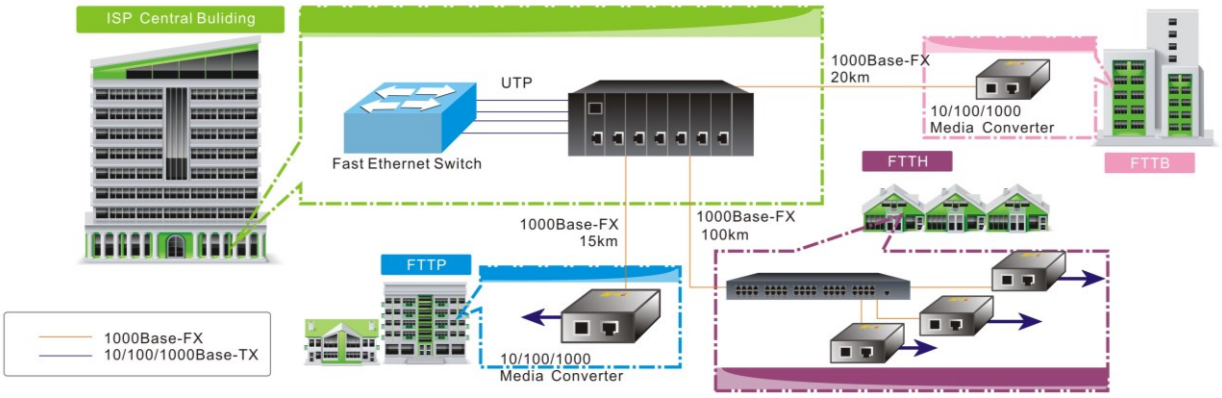
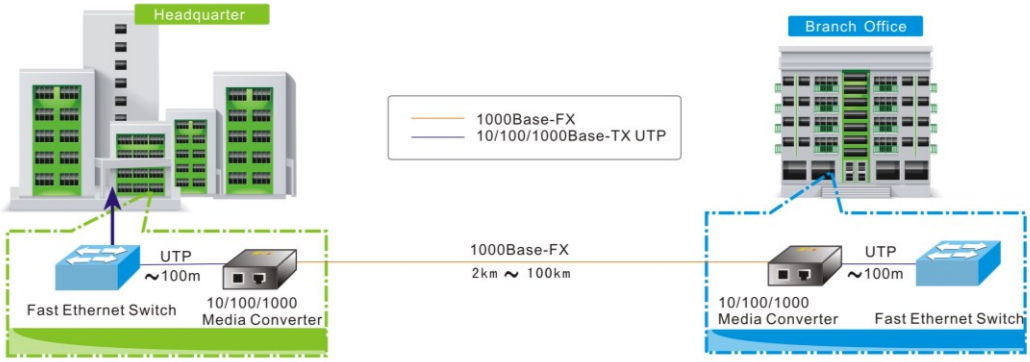
❖ Application





❖ Order Information

BT31G1F-M-S-D	10/100/1000Base-T to 1000Base-F, SFP Slot without SFP module, standalone, external power adaptor

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