



10/100M Fast Ethernet Media Converter BT31E1F-SM- 20KM series

❖ Overview

The BT31E1F-SM- 2KM series are media converter with the DIP Switch. The DIP Switch can set the Link Fault Pass-through (LFP) and Flow-Control function.

LFP (LLCF/LLR) can immediately alarm administrators the problem of the link media and provide efficient solution to monitor the net. LLCF (Link Loss Carry Forward) means when a device connected to the converter and the TP line loss the link, the converter's fiber will disconnect the link of transmit. LLR (Link Loss Return) means when a device connected to the converter and the fiber line loss the link, the converter's TP port will disconnect the link of transmit. Both can immediately alarm administrators the problem of the link media and provide efficient solution to monitor the net.



❖ Features

- ❖ 10/100Mbps auto-sensed, facilitating network upgrade
- ❖ Built-in efficient switching core to implement flow control and reduce broadcast packets
- ❖ Full-duplex and half-duplex auto-sensed
- ❖ Supporting auto-sense of MDI/MDI-X, facilitating system commissioning and installation
- ❖ LFP(Link Fault Pass-through) function
- ❖ Supporting the transmission of 100Base-FX or STM-1, compatible with other devices
- ❖ Supporting low-time lag transmission
- ❖ Supporting the transmission of extra-long packets up to 2048 bytes
- ❖ Extremely low power consumption (less than 2W), reliable and stable performance
- ❖ Options in single mode dual fiber or Multi-mode dual fiber.

❖ 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	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow Control
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber Multi-mode: 2 km; Dual-fiber single mode: 20/40/60/80/100/120 km; Category-5 twisted pairs: 100m
Port	One RJ45 port: Connecting STP/UTP category-5 twisted pairs, EIA568A/B One optical port: Multi-mode Dual-fiber: SC or ST (50/125μm or 62.5/125μm) Single mode Dual-fiber: SC or FC (9/125μm)
Conversion means	Store and Forward mode or Cut-Through mode
Buffer space	Built in 128Kb RAM for data buffer
Flow control	Full duplex: flow control; Half duplex: back pressure
BER	<10 ⁻⁹
MTBF	100,000 hours
LED indicator	POER (power supply), FX LINK/ACT (optical link action) FDX (full duplex), TX LINK/ACT (TP cable link/action) TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)
Power supply	External: AC90~264V/DC100~380V input, 5V-12V output
Power consumption	<40W (the chassis at full load), <2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Maintaining temperature	-40~70°C
Maintaining humidity	5% ~ 90% non-condensing
Dimensions	71mm (W)×94mm (D)×26 mm (H) (external power supply)



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❖ Order Information

BT31E1F-MM-2KM	10/100Base-T to 100Base-F, multi-mode, 2km, SC, standalone, external power adaptor
BT31E1F-SM-2KMS-20	10/100Base-T to 100Base-F, single mode, 20km, SC, standalone, external power adaptor
BT31E1F-SM-2KMS-40	10/100Base-T to 100Base-F, single mode, 40km, SC, standalone, external power adaptor
BT31E1F-SM-2KMS-60	10/100Base-T to 100Base-F, single mode, 60km, SC, standalone, external power adaptor
BT31E1F-SM-2KMS-80	10/100Base-T to 100Base-F, single mode, 80km, SC, standalone, external power adaptor
BT31E1F-SM-2KMS-100	10/100Base-T to 100Base-F, single mode, 100km, SC, standalone, external power adaptor
BT31E1F-SM-2KMS-120	10/100Base-T to 100Base-F, single mode, 120km, SC, standalone, external power adaptor

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WARRANTY:

2 YEARS (EXPANDABLE UPTO 5 YEARS)

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