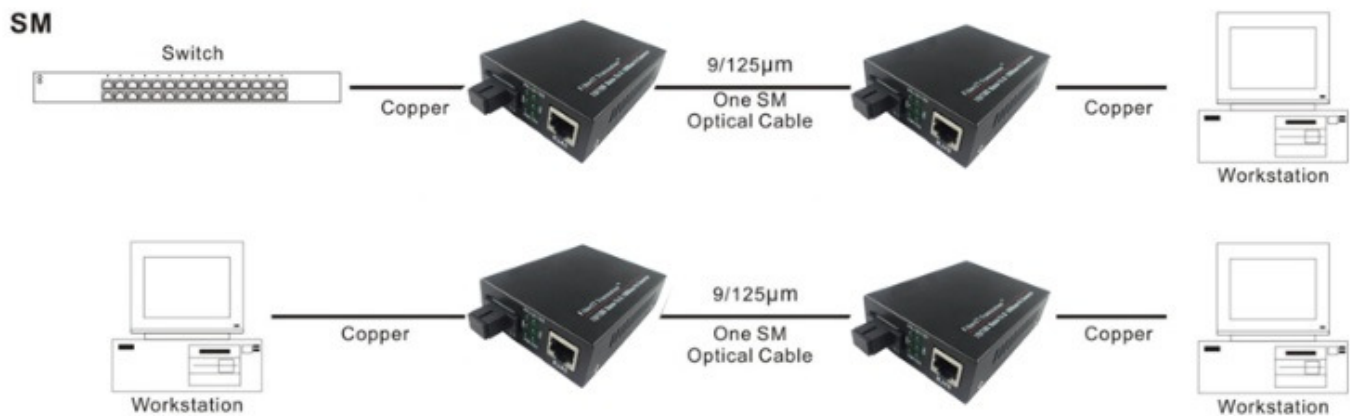


Model : ATZ FO-MC-GE-SMBDxxK-SC/A_B (xx=Dist in km: 20/40/60)

Description: 10/100/1000Base-TX to 1000Base-SX/LX Standalone
Gigabit Ethernet Media Converter/Singlemode/1310/1490/1550nm
WDM BiDi-Single Fiber Series/SC

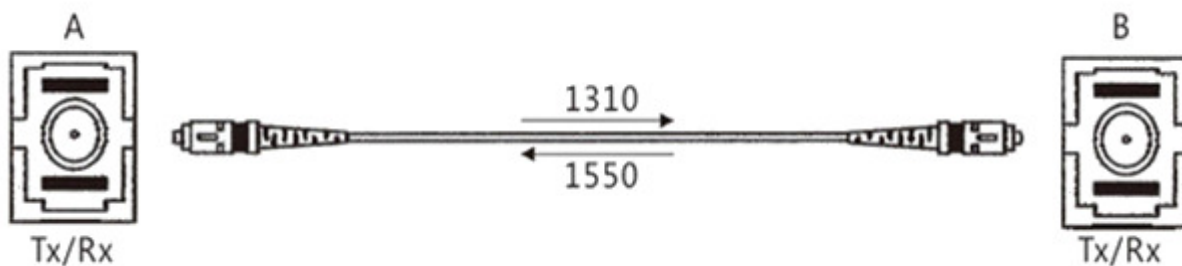
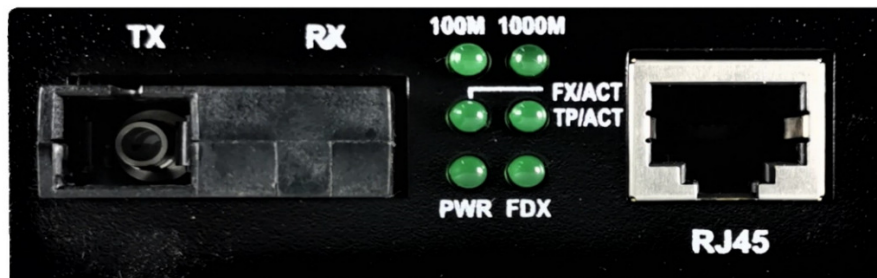


Application:



Model : ATZ FO-MC-GE-SMBDxxK-SC/A_B (xx=Dist in km: 20/40/60)

Description: 10/100/1000Base-TX to 1000Base-SX/LX Standalone
Gigabit Ethernet Media Converter/Singlemode/1310/1490/1550nm
WDM BiDi-Single Fiber Series/SC



System Design

The series 10/100/1000M Ethernet media converter adopts switching technology to fulfill media conversion. *Bidirectional (BiDi)* has only with one port which uses an integral WDM coupler to transmit and receive signals over a single strand fiber.

It complies with IEEE802.3z and IEEE802.3ab standards, and supports two types of media network connections: 10/100/1000Base-T and 1000Base-SX/LX. It inter-converts electrical signals of 10/100/1000Base-T twisted pairs with optical signals of 1000Base-SX, extending the transmission distance of a network from 100m via copper cables to 20km/40km/60km via fiber optical cables of fiber size: 62.5/125 μ m, 50/125 μ m, 9/125 μ m. It extends the network transmission distance in WDM technology, through bidirectional communications via singlemode single-core fiber cable .

Features:

- Supporting inter-conversion between 10/100/1000Base-TX and 1000Base-SX
- Supporting full-duplex and half-duplex and auto-negotiation

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- Supporting automatic cross connection of twisted pair interfaces, 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;
- Supporting STP to form a redundant network
- Supporting switches like Cisco, HP, juniper, Huawei, etc.

Specifications:

Access mode	10/100/1000Mbps Gigabit Ethernet
Standard	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit ethernet, IEEE802.1qVLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	1310nm; 1490nm; 1550nm
Optical Power	-9dBm to -3dBm
Transmission distance	1310/1550nm@20Km CAT5/CAT5E twisted pair: 100m
Port	One RJ45 connector: connected to STP/UTP CAT5/CAT5E twisted pair. One optical port: MM: SC/ST/FC (fiber size: 50,62.5/125μm)
MAC Address table	2K
Buffer space	1M
Conversion means	Media conversion
Delay	Store-and-forward: <10μs; cut-through: 1μs
BER	<10 ⁻⁹
MTBF	100,000 hours
LED	PWR (power supply), FX LINK (optical link action), TP LINK1000 (twisted pair link1000M), TP LINK100 (twisted pair link 100M), TP ACT (twisted pair packet forwarding)
Power	DC5V 2A (external), AC220 0.5A/DC-48 (built-in)
Power consumption	Full load <3W
Operating temperature	-10~60°C
Operating humidity	5%~90%
Maintaining temperature	-40~70°C

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Maintaining humidity	5% ~ 90% non-condensing
Dimensions	26mm (H) * 70mm (W) * 94 mm (D) (external power supply)
	30mm (H) * 110mm (W) * 140 mm (D) (internal power supply)

Ordering information

Part No.	Descriptions	Remark
ATZ FO-MC-GE-SMBD20K-SC/A	Gigabit Ethernet 10/100/1000Mbps WDM Media Converter 20km SC (TX=1310nm/Rx=1550nm)	SC/FC/ST Available
ATZ FO-MC-GE-SMBD20K-SC/B	Gigabit Ethernet 10/100/1000Mbps WDM Media Converter 20km SC (TX=1550nm/Rx=1310nm)	SC/FC/ST Available
ATZ FO-MC-GE-SMBD40K-SC/A	Gigabit Ethernet 10/100/1000Mbps WDM Media Converter 40km SC (TX=1310nm/Rx=1550nm)	SC/FC/ST Available
ATZ FO-MC-GE-SMBD40K-SC/B	Gigabit Ethernet 10/100/1000Mbps WDM Media Converter 40km SC (TX=1550nm/Rx=1310nm)	SC/FC/ST Available
ATZ FO-MC-GE-SMBD60K-SC/A	Gigabit Ethernet 10/100/1000Mbps WDM Media Converter 60km SC (TX=1490nm/Rx=1550nm)	SC/FC/ST Available
ATZ FO-MC-GE-SMBD60K-SC/B	Gigabit Ethernet 10/100/1000Mbps WDM Media Converter 60km SC (TX=1550nm/Rx=1490nm)	SC/FC/ST Available

Remark :

- Power adapter for stand-alone units is manufactured by third party .Power adapter included US, European, UK or Australian power plug.
- Please feel free to contact factory for any special requirement and customization

Package Includes:

1x Bi-Directional media converter
1x power adapter

Warranty: 3 Years

Warranty is effective from the date of original delivery.

This warranty shall be void if a serial number has been removed from the product.