10/100M FAST ETHERNET MEDIA CONVERTER
AX-100MM850D-2/AX-100SM13D-20/40

DESCRIPTION

AX-100MM850D-2 / AX-100SM13D Ethernet media converter can replace media converter with network management capability to greatly reduce the system cost. It can interconvert electrical signals of 10Base-T and 100Base-TX twisted pairs with optical signals of 100Base-FX.

It extends the network transmission distance from 100m via copper cables to 120 km via fiber optical cable. It enables the data to transmit in two different mediums of electrical and optical networks either by the technology of data link L2 store-and-forward or by the one of PHY L1 cut-through. It supports transmission in multi-mode dual fiber or single mode dual fiber.

FEATURES

- 10/100Mbps auto-sensed and facilitating network upgrade
- Built-in efficient switching core to implement flow control and reduce broadcast packets
- Support auto-sensing, full-duplex and half-duplex operation
- Support auto-sense of MDI/MDI-X, facilitating system commissioning and installation
- Support half /full-duplex of FX
- Support 10/100Mbps store-and-forward and 100Mbps cut-through transmission

- Support the transmission of 100Base-FX or STM-1, compatible with other devices
- Support low-time lag transmission
- Support the transmission of extra-long packets up to1600 bytes
- Extremely low power consumption (less than 2W), reliable and stable performance
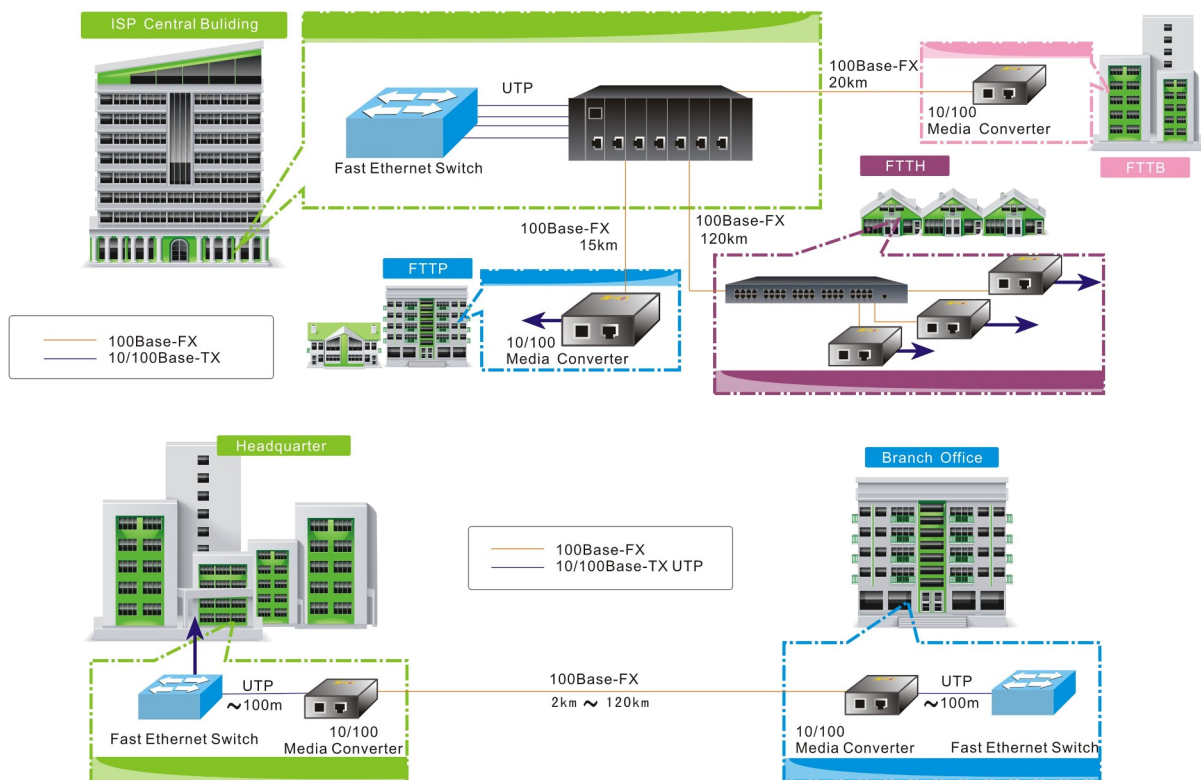- Options in single mode dual fiber or multi-mode dual fiber.

SPECIFICATIONS

Parameter	Specifications
Data Rate	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u,100Base-TX/FX Fast Ethernet and IEEE802.3x Flow Control
Operating Wavelength	850nm/1310nm/1550nm
Transmission Distance	Dual-fiber Multi-mode: 2 km Dual-fiber single mode: 20 or 40km 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)
Operation Mode	Store and Forward mode or Cut-Through mode
Buffer	Built in 128Kb RAM for data buffer
Flow Control	Full duplex: flow control Half duplex: back pressure
BER	$<19^{-9}$
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 input, 5V1A output
Power Consumption	<40W (the chassis at full load), <2W
Operating Temperature	-10~55ºC
Operating Humidity	5%~90%
Storage Temperature	-40~70ºC
Storage Humidity	5% ~ 90% non-condensing
Dimensions	71mm (W)×94mm (D)×26 mm (H) (external power supply)

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APPLICATIONS

ORDERING INFORMATION

Part No	Description
AX-100MM850D-2	Media converter, 10/100M, Multi mode, Dual fiber, 850nm, 2km, SC connector, power adaptor 220VAC, standalone
AX-100MM13D-2	Media converter, 10/100M, Multi mode, Dual fiber, 1310nm, 2km, SC connector, power adaptor 220VAC, standalone
AX-100SM13D-20	Media converter, 10/100M, Single mode, Dual fiber, 1310nm, 20km, SC connector, power adaptor 220VAC, standalone
AX-100SM13D-40	Media converter, 10/100M, Single mode, Dual fiber, 1310nm, 40km, SC connector, power adaptor 220VAC, standalone

Note : Specifications are subject to change without prior notice

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