

APEXSHA GIGABIT ETHERNET MEDIA CONVERTOR SERIES



Apexsha fiber media converters transfer's data from 10/100/1000 BaseTX Gigabit Ethernet copper to fiber interfaces and expanding network data transmission beyond the 100 meter range. These media Converters are designed to receive data then convert and transmit to fiber network. The 10/100 Base-TX port auto-senses 10/100Mbps connection speeds, auto-negotiates half-/full-duplex modes, and auto-selects MDI-X media type. Apexsha media convertor with high-quality Multi-mode SC optical fiber connector port, this converter will give your network the ability to interface with fiber connections over a distance from 550m ~ 120km.

Apexsha converters provides auto-sensing detection of full duplex or half duplex signaling. It has easy-to-read diagnostic LED's for continuous status display on network speed, duplex media access control connection, and network traffic. The Apexsha fiber media converters uses standard RJ-45 UTP/STP and SC fiber optic connectors and is 1000BASE-TX/FX compliant and operates with all devices that complies to this standard.

KEY FEATURES:

- Supports 10/100/1000 BASE-T auto-negotiation and auto-MDI/MDI-X
- 10/100/1000BASE-TX UTP to 1000BASE-FX fiber media conversion
- Multi-mode transmission over fiber up to 550m
- Single-mode transmission over fiber from 10km~120km
- Less power consumption and reduced heat with compact design with easy installation
- Supports Wavelength of 850nm, 1310nm, 1550nm
- Compact size for working with APEXSHA MC family media chassis
- LED indicators for easy network diagnostics
- 9K jumbo frame supported
- IEEE 802.3x flow control for full duplex and back pressure for half duplex eliminate the loss of packets
- Store-and-Forward mechanism
- Non-blocking full wire-speed forwarding rate
- Media conversion of 10/100/1000 BASE-T and 1000BASE-SX/LX.
- Multi-mode fiber using SC/LC connector
- Single-mode fiber using SC/LC connector
- Choice of fiber connectors from SC and LC multi-mode/single-mode fiber

TECHNICAL SPECIFICATIONS:

Application	Indoor	Operating Temperature	-10°C ~ +50°C
Standard Compliance	IEEE 802.3, IEEE 802.3u	Storage temperature	-20°C ~ +70°C
Copper Connector	10/100/1000Base-TX: UTP/STP RJ-45	Storage Humidity	5% ~ 95%
Fiber Connector	100Base-FX: MM SC, SM SC	Operating Humidity	5% ~ 90%
Data Transfer Rate	100Mbps: 148,800 pps, 10Mbps: 14,880 pps	Dimension	26 (high) × 70 (width) × 93 (length) mm
Flow control	IEEE802.3x for full-duplex, Back pressure flow control for half-duplex	Converter Type	Standalone type (modular type optional)
Auto crossover	MDI-MDIX Support	Standards compliance/Certification	CE, FCC
MM Fiber	50/125,2.5/125,100/140£gm (Support distance up to 550m)	Power	
SM Fiber	8.3/125,8.7/125,9/125,100/125£gm (Support distance up to 120Km)	Power Supply	External Power supply (Internal power supply optional)
LED Indicators	PWR ,FX Link/Act, TX, RX,100mbps	Power Source AC Input	100 / 115V AC, 0.63A, 50-60HZ, 220 / 230V AC, 50 / 60HZ
Wave Length	850/1310/1550nm	Power Source DC Input	5V/1A AC /12V DC ± 10%
Media 10 BASE-T	UTP category 3, 4, 5 cable (maximum 100m)	DC Power Supply	-48V DC (optional)
Media 100 BASE-T	EIA/TIA-568 100Ω STP (maximum 100m)		
Media 100BASE-FX	UTP category 5, 5e, 6 cable (maximum 100m)		
	EIA/TIA-568 100Ω STP (maximum 100m)		
	Multi-mode Fiber / Single-mode Fiber		

ORDERING INFORMATION:

AM3005MGL	Multi-mode Gigabit Ethernet 850nm media convertor supports up to 550m
AM3010SGL	Single mode Gigabit Ethernet 1310nm media convertor supports up to 10km
AM3020SGL	Single mode Gigabit Ethernet 1310nm media convertor supports up to 20km
AM3040SGL	Single mode Gigabit Ethernet 1310nm media convertor supports up to 40km
AM3060SGL	Single mode Gigabit Ethernet 1310nm media convertor supports up to 60km
AM3080SGL	Single mode Gigabit Ethernet 1550nm media convertor supports up to 80km
AM3100SGL	Single mode Gigabit Ethernet 1550nm media convertor supports up to 100km
AM3120SGL	Single mode Gigabit Ethernet 1550nm media convertor supports up to 120km

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