

10/100M Ethernet Fibre Media Convertors

Apollo Technology Gigabit Fibre Media Converters convert Optical - Electric Ethernet signals between 10/100M UTP interface (TX) and 100M optical fibre interface (FX). It can extend traditional 10/100M fast Ethernet to a distance of 120km through an optical fibre link. It possesses stable performance and good quality by adopting latest IC packages. 6 Group LED indicated lights can fully monitor the working conditions the media convertor. It is easy for end-users to observe network operation. external power supply Converters can be used alone, or inserted to a 14 slots Media Converters Rack. The Media Convertor series are suitable for use in a Data Network Centre.



Main features

- Auto negotiation function allows UTP port to auto select 10M or 100M, and Full Duplex or Half Duplex.
- UTP port supports MDI/MDI-X auto crossover.
- Indicator function of link fault (LFP): When optical fibre or UTP is at fault, the converter could stop all the link.
- Multiple Optical Transceiver could be chosen: SC, ST or FC, singlemode / multimode
- Supporting 1600 bytes packet for management
- Converter working mode can be chosen: Store and forward switch mode, Modified cut-through switch mode, or Converter mode.
- Internal or External switching power: for users to choose.

Technical Specifications

- Operating standards: IEEE802.3u、 10/100Base-TX and 100Base-FX;
- MAC addresses table: 1K
- Data buffer: Built-in 128Kbyte RAM .
- Connectors: UTP Connector: RJ-45, 10/100Mbps; Fibre Connector: ST/SC/FC, 100Mbps
- Cable:
- UTP: Cat. 5 (the max distance up to 100m)
- Fibre (Multimode): 50/125, 62.5/125µm (the max distance up to 2km or 5km)
- Fibre (Singlemode): 8.3/125, 8.7/125, 9/125, 10/125µm (the max distance up to 20 -120km)
- Flow Control
- Full Duplex: Supporting standard IEEE802.3x
- Half Duplex: back pressure
- LED: Power, FX SD, FX Link/Act, TX 100, TX FDX, TX Link/Act.
- Power Requirement: AC 170 ~ 240V, DC 5V.
- Ambient Temperature: 0 ~ 700C
- Humidity: 5 ~ 90%
- Dimensions: Internal power: 30×110×140mm
External power: 26×70×93mm

Fibre Optic Information

Type	Connector	Fibre type	Wavelength	Max. distance	TX power	Sensitivity	Link Budget
APOLLO4A	ST/SC	multimode	850/1310nm	2km	-20~-12dBm	-30dBm	10dBm
APOLLO4B	SC	multimode	850/1310nm	5km	-13~-8dBm	-30dBm	17dBm
APOLLO4C	SC	singlemode	1310nm	25km	-14~-8dBm	-32dBm	18dBm
APOLLO4D	SC	singlemode	1310nm	40km	-8~-3dBm	-33dBm	25dBm
APOLLO4E	SC	singlemode	1310nm	60km	-3~0dBm	-36dBm	33dBm
APOLLO4F	SC	singlemode	1550nm	80km	-10~-5dBm	-35dBm	25dBm
APOLLO4G	SC	singlemode	1550nm	100km	-5~0dBm	-36dBm	31dBm
APOLLO4H	SC	singlemode	1550nm	120km	0~3dBm	-36dBm	36dBm