

AT-1100 Series Media Converters



External Power Supply Configuration



Internal Power Supply Configuration

Overview

The ARIA AT-1100 Series Media Converters connect copper and fiber optic networks together. Media Converters are commonly used when the distance limit for copper cable (100m) is exceeded and fiber optic cable is needed because it is capable of transmission over longer distances.

The AT-1100 comes equipped with a dual fiber SC adapter and RJ45 port.

The ARIA AT-1100 Series Media Converter interconverts electrical signals of 10Base-T and 100Base-TX twisted pairs with optical signals of 100Base-FX.

The AT-1100 series media converter supports transmission in a singlemode or multimode dual fiber network configuration.

Features

- Electrical port and optical port link failure alert system.
- Auto-sensed 10/100Mbps configuration helps facilitates network upgrades.
- Built-in efficient switching core implements flow control and reduces broadcast packets.
- Auto-sensing of full-duplex and half-duplex communications systems.
- Auto-sensing of MDI/MDI-X facilitates system commissioning and installation.
- Supports half/full-duplex FX.
- Supports 10/100Mbps store-and-forward and 100Mbps cut-through transmission.
- Supports 100Base-FX or STM-1 transmission.
- Provides low latency data transmission.
- Supports the transmission of extra-long packets up to 1600 bytes in size.
- Extremely low power consumption (less than 2 Watts).
- Reliable and stable performance.

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Specifications

Parameter	Value
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 Multimode: 2 km; Dual-fiber Singlemode: 20/40 km; Category-5 twisted pairs: 100m
Port	One RJ45 port: Connecting STP/UTP category-5 twisted pairs, EIA568A/B One optical port: Multimode Dual-fiber: SC (50/125µm or 62.5/125µm) Singlemode Dual-fiber: SC (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	POWER (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	AC90~264V input, 5V1A output
Power Consumption	<2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Maintaining temperature	-40~70°C
Maintaining humidity	5% ~ 90% non-condensing
Dimensions	26 mm (H)x71mm (W)x94mm (D) (external power supply) 30 mm (H)x110mm (W)x140mm (D) (internal power supply)

Ordering Information

Part Number	Power Supply	Fiber Type	Link Length	Adapter
AT-1100S-20	External	Singlemode	20 kilometers	SC
AT-1100S-40	External	Singlemode	40 kilometers	SC
AT-1100	External	Multimode	2 kilometers	SC
AT-1100SI-20	Internal	Singlemode	20 kilometers	SC
AT-1100SI-40	Internal	Singlemode	40 kilometers	SC
AT-1100I	Internal	Multimode	2 kilometers	SC