10/100M Fast Ethernet Media Converter

NT-1100D/NT-1100SD series

❖ Overview

Due to its unique function of link failure alert between electrical port and optical port, the intelligent 10/100M adaptive fast Ethernet media converter can replace the media converter with network management to greatly reduce the system cost. NT-1100D/NT-1100SD Ethernet media converter 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, facilitating network upgrade
- ✧ Built-in efficient switching core to implement flow control and reduce broadcast packets
- ✧ Full-duplex and half-duplex auto-sensed
- ✧ Supporting auto-sense of MDI/MDI-X, facilitating system commissioning and installation
- ✧ Supporting half /full-duplex of FX.
- ✧ Supporting 10/100Mbps store-and-forward and 100Mbps cut-through transmission.
- ✧ Supporting the transmission of 100Base-Fx or STM-1, compatible with other devices
- ✧ Supporting low-time lag transmission
- ✧ Supporting 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.

N-Net Technology Co., Ltd
Address: 5-6 floor, C Building, Yiyuantong Industrial Zone, Xuexiang Community, Bantian, Longgang District, Shenzhen, 518129, China
Tel: +86-755-8387 4688 Fax : +86-755-83420578 E-mail: sales@n-net.com.cn Web : http://www.n-net.com.cn

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❖ Specifications

Parameter	Specifications
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 multi-mode: 2 km; Dual-fiber single mode: 20/40/60/80/100/120 km; 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, 62.5/125μm) Single mode Dual-fiber: SC or FC (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	$<19^{-9}$
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	Internal: AC90~264V/DC100~380V input
Power consumption	<40W (the chassis at full load), <2W
Operating temperature	-10~55ºC
Operating humidity	5%~90%
Maintaining temperature	-40~70ºC
Maintaining humidity	5% ~ 90% non-condensing
Dimensions	140 mm (W)×110 mm (D)×30 mm (H) (internal power supply)

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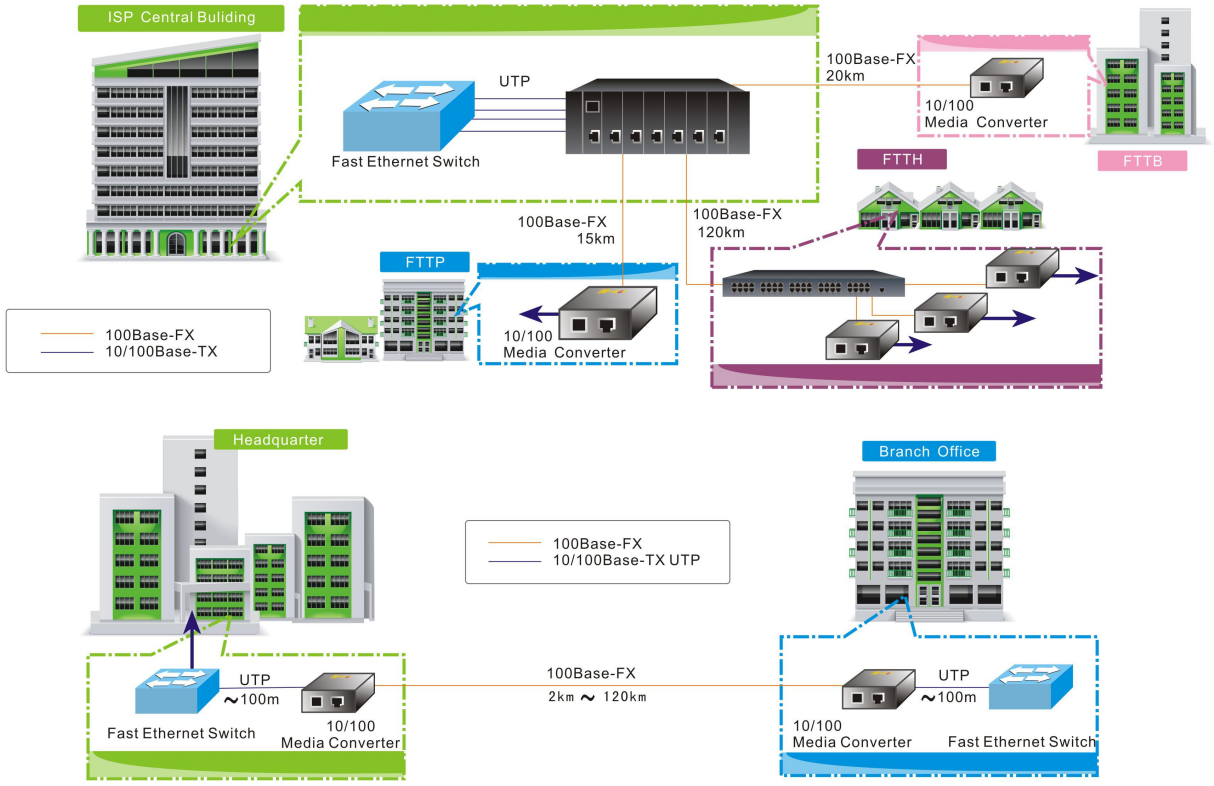
Application



Order Information

NT-1100D	10/100Base-T to 100Base-F, multi-mode, 2km, SC, standalone, internal power adaptor
NT-1100SD-25	10/100Base-T to 100Base-F, single mode, 25km, SC, standalone, internal power adaptor
NT-1100SD-40	10/100Base-T to 100Base-F, single mode, 40km, SC, standalone, internal power adaptor
NT-1100SD-60	10/100Base-T to 100Base-F, single mode, 60km, SC, standalone, internal power adaptor
NT-1100SD-80	10/100Base-T to 100Base-F, single mode, 80km, SC, standalone, internal power adaptor
NT-1100SD-100	10/100Base-T to 100Base-F, single mode, 100km, SC, standalone, internal power adaptor
NT-S1100D-120	10/100Base-T to 100Base-F, single mode, 120km, SC, standalone, internal power adaptor

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