Technical Data Sheet
40KM Single Mode Dual Core 10/100/1000 Media Converter

PRODUCT CODE
NTPL-FMCG1310-40D

Overview

Nepstech NTPL-FMCG1310-40D ethernet media converter can inter-convert electrical signals of 100Base-T and 1000Base–TX twisted pairs with optical signals of 1000Base-FX. It extends the network transmission distance 20km to 120km 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 single-mode dual fiber.

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Features

10/100/1000Mbps 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 automatic cross connection of twisted pair interfaces, facilitating system commissioning and installation

Supporting 10/100/1000Mbps store-and-forward and 1000Mbps cut-through transmission with optional dip-switch(unique)

Supporting the transmission of extra-long packets up to1600 bytes

Supporting the transmission of extra-long VLAN packets

Supporting Quality of Service (QoS) , ensuring the transmission of VoIP packets

Supporting STP to form a redundant network

Extremely low power consumption, low heat,stable performance and long lifetime

Specifications

Access mode	10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u100)Base-TX/FX Gigabit Ethernet, IEEE802.3x Flow control,IEEE802.1q VLAN,IEEE802.1p QoS,IEEE802.1d Spanning Tree
Standard	1310nm;1550nm or 1490nm
Transmission distance	Single-mode:20km;40km;60km;80km;100km;120km Category-5 twisted pairs: 100m
Port	One RJ45 port: For connecting STP/UTP category-5 twisted pairs Two optical ports: SM SC(fiber size: 9/125μm)
Conversion means	Media conversion, store-and-forward/cut-through
MAC address table	1K
Buffer space	1Mbit
Flow control	Full duplex: flow control; Half duplex: back pressure
Delay	Store-and-forward: 9.6μs; cut-through: 0.9μs
BER	<19-9
MTBF	100,000 hours
LED indicator	PWR (power supply) FX LINK/ACT (optical link/action) TP LINK/ACT (twisted pairs link/action) TP 100 (100M transmission rate of twisted pairs)

	FX 100 (100M transmission rate of optical fiber)
Power supply	DC5V 1A , AC220
Power consumption	<2W
Operating temperature	-10~70ºC
Operating humidity	5%~90%
Dimensions	26mm (H) * 70mm (W) * 94 mm (D)

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