

FAST ETHERNET MEDIA CONVETER

MODEL: DYS1100SS SERIAL

Overview:

DYS1100SS Series Fiber Media Converters Card can convert Optical-Electric Ethernet signals between 10/100M UTP interface (TX) and 100M optical fiber interface (FX). It can extend traditional 10/100M fast Ethernet to the distance of 120km through optical fiber link. It possesses stable performance and good quality by adopting latest IC packages from USA and Taiwan. 6 Group LED indicated lights could fully monitor the working conditions of Converters. It is easy for end users to observe network operation. DYS1100 Serial Media Converter Card could be used alone, them can inserted to 14 slots Converters Rack supplied by DYS Crop (RACK2000-14). Suitable for the use of Network Centre...

Picture:



Main features:

- Data transfer rate: 100M
- High-performance 155Mbps memory bandwidth
- Type: 1 fiber (Single mode fiber)
- Auto-negotiation and speed autosensing
- UTP port supports MDI/MDI-X auto crossover.
- Indicator function of link fault (LFP): When optical fiber or UTP is at fault, the converter could stop all the link.
- The optical connector selected is SC / UPC
- Supporting 1600 bytes packet for management
- Converter working mode could be chosen: Store and forward switch mode, Modified cut-through switch mode, or Converter mode.
- Internal Circuit of prevented thunder could greatly reduce damage of the converter caused by thunderbolt induction, and internal circuit for preventing short circuit.
- Compatible with L2 switches on VNPT's network
- In conformity to safety code of FCC and CE MARK, ROHS compliant
- Download and Upload speed and packet loss rate: 100Mbps; Packet loss rate=0. test time 30 minutes

Specifications:

Parameter	Specifications	
Standard Protocol	IEEE802.3 10 Base-T standard	
	IEEE802.3u 10/100Base-TX/FX standard	
	ITU-T G985 Class S	
	IEEE 802.3ah standard.	
Band Width	RJ 45 Port: 10/100Mbps	Optical Port: 155Mbps
Transmission Mode	Full /Half duplex mode	

Connectors	UTP: RJ-45	Fiber connector: SC/UPC
LED Indicators	POWER, Link/Act,10/100, FX, TX , FDX.	
Power Supply (Adapter switching)	Internal	220 VAC ± 10%, 50/60Hz Vpp ≤150mV
	External	DC-5V
	Output Voltage:	uncertainty ±3% (without load)
	Voltage surge & short circuit protection	Intergrates the voltage surge protection ,short circuit prevention for PCB
	Power Consumption	≤5W
	Environmental Parameters	Work Temperature
	Storage Temperature	-40 ⁰ C~70 ⁰ C
	Humidity	90% non-condensing
TP Cable	Cat5 UTP cable (the max distance up to 100m)	
Fiber Cable	8. 3/125, 8. 7/125, 9/125, 10/125μm(the max distance up to 20 -120km)	
	50/125, 62. 5/125μm(the max distance up to 2km or 5km)	
MTBF (Hours)	20,000 hours	
Dimensions(mm)	115*77*26mm (L*W*H)(card type without metal box)	
	94mm*70mm*25mm(L*W*H) (External power supply)	
	140mm*110mm*30mm(L*W*H) (Internal power supply)	
Stability	Operating in special condition environment	Cold temperature. Profile test: - Temperature: -10 ⁰ C - Duration: 72h (Reference: ETSI EN 300 019-2-3 T 3.2, IEC 60068-2-1)
		High temperature. Profile test: - Temperature: +55 ⁰ C - Duration: 72h (Reference: ETSI EN 300 019-2-3 T 3.3, IEC 60068-2-2)
		High relative humidity (Damp heat, steady state). Profile test: - Temperature: +30 ⁰ C, -Relative humidity: 95%RH - Duration: 4 days. (Reference: ETSI EN 300 019-2-3 T 3.3, IEC 60068-2-56)
	Suddenly on/off AC power supply	Plug in/out ≥ 400 times (90s between two time) Plug in/out ≥ 5 times (5s between two time).

LED indicator lamp:

LED indicator lamp	Status	Explanation
TX/FX Link/Act	On	"ON" indicates that Ethernet/Fiber link is in correct connection.
	Blink	"Blink" indicates packet goes through Tx/Fx end.

TX/FX Link/Act	Fiber link/act	Blink when transmit/receive data
	UTP link/act	Blink when transmit/receive data
PDX	On	Transceiver works in the full duplex mode.
	Off	Transceiver works in the half duplex mode.
PWR	On	Power is on and normal.
FX	On	Fiber signal is detected.
100	On	Transfer rate of electric interface is 100Mbps.
	Off	Rate of electric interface is 10Mbps

Information Order:

Type	Connector	Fiber type	Wavelength (nm)	Max. distance	TX power (dBm)	Sensitivity
DYS1100SS-SC-25A	SC Simplex	Single-mode	1310/1550	25km	-15~-3	≤-30dBm
DYS1100SS-SC-25B	SC Simplex	Single-mode	1550/1310	25km	-15~-3	≤-30dBm
DYS1100SS-SC-40A	SC Simplex	Single-mode	1310/1550	40km	-8~-3	≤-33dBm
DYS1100SS-SC-40B	SC Simplex	Single-mode	1550/1310	40km	-5~0	≤-28dBm
DYS1100SS-SC-60A	SC Simplex	Single-mode	1490/1550	60km	-3~0	≤-36dBm
DYS1100SS-SC-80B	SC Simplex	Single-mode	1490/1550	80km	-10~-5	≤-35dBm

Note:

Coupled into 9/125 SMF .

Measured with PRBS 2⁷-1 test pattern @155Mbps.BER≤10⁻¹²

DYSFO

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