

FAST ETHERNET MEDIA CONVETER

MODEL: DYS1000SS SERIAL

Overview:

DYS1000SS Series Fiber Media Converters Card can convert Optical-Electric Ethernet signals between 10/100M UTP interface (TX) and 1000M optical fiber interface (FX). It can extend traditional 10/100M/1000M 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. DYS1000 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:

- Auto negotiation function allows UTP port to auto select 10M/100M/1000M, and Full Duplex or Half
- High-performance 1.25G memory bandwidth
- Type: 1 fiber (Singlemode)
- 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.
- 01 WAN port 1000BaseFX with optical port interface: 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.
- Maximum RX Power \geq -3 dBm
- In conformity to safety code of FCC and CE MARK, ROHS compliant
- Internal or External switching power: for users to choose.

Specifications:

Parameter	Specifications	
Standard Protocol	IEEE 802.3z 1000 Base	
	IEEE802.3u 10/100/1000Base-TX/FX standard	
	IEEE 802.3d standard.	
	IEEE 802.3Q standard.	
Band Width	RJ 45 Port: 10/100/1000Mbps	Optical Port: 1.25G
Transmission Mode	Full /Half duplex mode	

Connectors	UTP: RJ-45	Fiber connector: SC
LED Indicators	POWER, FPL,100/1000, FRX, TRX , FDX.	
Power Supply (Using Adapter switching)	Internal	AC 220v ±10%, 50/60Hz Vpp ≤150mV
	External	DC-5V
	Output Voltage:	uncertainty ±3% (without load)
	Voltage surge protection:	Intergrates the voltage surge protection (arrester) equipment
	Power Consumption	≤5W
Environmental Parameters	Work Temperature	-10 ⁰ C~55 ⁰ C
	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)	100,000 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: -5 ⁰ C - Duration: 16h (Reference: ETSI EN 300 019-2-3 T 3.2, IEC 60068-2-1)
		High temperature. Profile test: - Temperature: +55 ⁰ C - Duration: 16h (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: 93%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).
Experiment	Download and Upload Speed: 1000Mbps/1000Mbps	
	Packet loss rate = 0 after 30 minutes ping 2 media converters	
Warranty	12 months	

LED indicator lamp:

LED indicator lamp	Status	Explanation
FX Link/Act	On	Connection status display for fiber link. "ON" indicates that Fiber link is in correct connection.
	Blink	Active status display of fiber link "Blink" indicates packet goes through Fx end.
TP Link/Act	Fiber link/act	Blink when transmit/receive data
	UTP link/act	Blink when transmit/receive data
DUP	On	Transceiver works in the full duplex mode.
	Off	Transceiver works in the half duplex mode.
PWR	On	Power is on and normal.
SD	On	Fiber signal is detected.
1000	On	Transfer rate of electric interface is 1000Mbps.
	Off	Rate of electric interface is 100Mbps

Information Order:

Type	Connector	Fiber type	Wavelength (nm)	Max. distance	TX power (dBm)	Sensitivity	Link Budget
DYS1000SS-SC-25A	SC Simplex	Single-mode	1310/1550	25km	-9~-3	-30dBm	23dBm
DYS1000SS-SC-25B	SC Simplex	Single-mode	1550/1310	25km	-9~-3	-30dBm	23dBm
DYS1000SS-SC-40A	SC Simplex	Single-mode	1310/1550	40km	-5~+3	-33dBm	28dBm
DYS1000SS-SC-40B	SC Simplex	Single-mode	1550/1310	40km	-8~+3	-33dBm	28dBm
DYS1000SS-SC-60A	SC Simplex	Single-mode	1490/1550	60km	0~+5	-36dBm	33dBm
DYS1000SS-SC-80B	SC Simplex	Single-mode	1490/1550	80km	0~+5	-35dBm	29dBm

Note: Receive sensitivity (max) measured with PRBS 2⁷-1@10⁻¹² BER: -22 dBm

DYSFO

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