

## Giga Ethernet Fiber Optic Media Converter Model: DYS2000

### Overview:

DYS2000 Series Fiber Media Converters can convert Optical-Electric Ethernet signals between 10/100/1000M UTP interface (TX) and 1000M optical fiber interface (FX). It can extend traditional 10/100/1000M 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. DYS series external power supply Converters could be used alone, or inserted to 14 slots Converters Rack supplied by DYS Crop. Suitable for the use of Network Centre.

### Picture:



**DYS2000**

**DYS2000SS**

### Main features

- Auto negotiation function allows UTP port to auto select 10M, 100M, 1000M, and Full Duplex or Half Duplex auto-sensed.
- 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.
- Multiple Optical Transceiver could be chosen: SC, ST or FC, single-mode / multi-mode
- 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.
- Internal or External switching power: for users to choose.

### Technical Specifications

- Operating standards: IEEE802.1 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-TX,
- IEEE802.3z 1000Base-SX/LX

- MAC address table: 1K
- Data buffer: Built-in 512Kbyte RAM
- Bandwidth: 12G, can be transmitted to achieve non-blocking wire-speed
- Connectors: UTP Connector: RJ-45, 10/100Base-T,
- Fiber Connector: ST/SC/FC, 100Base-FX
- Cable:
- UTP: Cat.5 or Cat.6 (the max distance up to 100m)
- Dual-fiber Multi-mode: 550m (Fiber size: 62.5/125 $\mu$ m)/1Km (fiber size: 50/125 $\mu$ m)
- Dual-fiber Single-mode: 10/20/40/60/80/100/120Km; Single-fiber Single-mode: 10/20/40/60/80Km.
- Flow Control
- Full Duplex: Supporting standard IEEE802.3x
- Half Duplex: back pressure
- LED: Power, FX SD, FX Link/Act, TX 1000, TX FDX, TX Link/Act.
- Power Requirement: AC 170 ~ 240V, DC 5V.
- Ambient Temperature: 0 ~60°C
- Humidity: 5 ~ 90%
- Dimensions: - Internal power: 30x110x140mm ( 48VDC or 110~220VAC )
- External power: 26x70x93mm ( 5VDC )

### Fiber Optic Information

Type	Connector	Fiber type	Wavelength (Nm)	Max. Distance	TX power (dBm)	Sensitivity	Link Budget
DYS2000S-SC-550	SC Duplex	Multimode	850	550m	-8~+2	-30dBm	17dBm
DYS2000S-SC-1	SC Duplex	Multimode	1310	1km	-9~+3	-9~+3	18dBm
DYS2000S-SC-10	SC Duplex	Singlemode	1310	10km	-8~+2	-32dBm	26dBm
DYS2000S-SC-20	SC Duplex	Singlemode	1310	20km	-9~+3	-32dBm	27dBm
DYS2000S-SC-40	SC Duplex	Singlemode	1310	40km	-5~0	-33dBm	24dBm
DYS2000S-SC-60	SC Duplex	Singlemode	1550	60km	-2~+3	-36dBm	24dBm
DYS2000S-SC-80	SC Duplex	Singlemode	1550	80km	0~+5	-35dBm	25dBm
DYS2000S-SC-100	SC Duplex	Singlemode	1550	100km	-5~0	-36dBm	31dBm
DYS2000S-SC-120	SC Duplex	Singlemode	1550	120km	-5~0	-36dBm	36dBm
DYS2000S-SC-10	SC Simplex	Singlemode	1310/1550	10km	-8~+2	-32dBm	25dBm
DYS2000S-SC-20	SC Simplex	Singlemode	1310/1550	20km	-9~+3	-32dBm	26dBm
DYS2000S-SC-40	SC Simplex	Singlemode	1310/1550	40km	-5~0	-33dBm	23dBm
DYS2000S-SC-60	SC Simplex	Singlemode	1490/1550	60km	-2~+3	-36dBm	23dBm
DYS2000S-SC-80	SC Simplex	Singlemode	1490/1550	80km	0~+5	-35dBm	25dBm

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