

4N-101SFP-10A

SFP port 10/100/1000M 10Km Single-Mode
Media Converter



4KV LIGHTING
PROTECTION

Product Overview

4N-101SFP-10A series is a 10/100/1000M fiber media converter independently developed by 4NSYS. It has 1* 10/100/1000Base-T port and 1* 1000Base-X uplink SFP fiber port, User can select different optical modules, such as multimode dual fiber, single-mode dual fiber, and single-mode single fiber.

The media converter adopts the enterprise-class Taiwan Realtek company's carrier-grade chip solution, which has stable performance, good quality and high cost performance. It is suitable for optical fiber access application scenarios such as security monitoring, wireless coverage, intelligent transportation, and safe cities to form a cost-effective and stable communication network.

Unmanaged model, plug and play, no configuration, easy to use.

Feature

The 4N-101SFP-10A is a media converter designed to convert between 1000BASE-X fiber and 10/100/1000Base-T copper media. It easily extends the distance of an existing gigabit network via fiber optic links when integrated with the appropriate SFP module. The 4N-101SFP-10A complies with IEEE 802.3ab 1000Base-T and IEEE 802.3z 1000Base-FX/X standards for use with multi-mode and single-mode SFP modules. To enhance network reliability and maintenance efficiency, the device supports Link Fault Signaling (LFS), which enables fault detection and link status notification between fiber and copper interfaces. It also features a Loop-back Testing function, allowing administrators to diagnose and troubleshoot network issues more effectively.

The 4N-101SFP-10A offers flexible installation on standalone desktops or when inserted into a chassis (4N-2U12, 4N-2U14). Its durable housing, constructed from high-quality Aluminum, provides excellent heat dissipation and long-term reliability. The easy-to-view front panel status LEDs provide real-time status information to monitor up-to-the-minute network activity, while the maximum transmission distance of the fiber optic link depends on the SFP module installed.

Model	4N-101SFP-10A	
Interface Characteristics		
Fixed Port	1* 10/100/1000Base-T RJ45 port 1* 1000Base-FX uplink SFP fiber port	
Ethernet Port	10/ 100/ 1000Base-T full duplex ,Auto MDI/MDI-X, Negotiation self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-T: Cat5e or later UTP(≤100 meter) 1000BASE-T : Cat5e or later UTP(≤100 meter)	
Optical Port	Gigabit SFP optical fiber interface, default not include optical modules (optional single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Wavelength/Distance	multimode: 850nm 0~550M,1310nm 0~2KM single mode: 1310nm 0~10KM , 1550nm 0~120KM	
Chip Parameter		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX, IEEE802.3x IEEE802.3ab 1000Base-T ; IEEE802.3z 1000Base-X ;	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	4Gbps	
Packet Buffer Size	512 Kbps	
MAC	2K	
LED Indicator	Fiber	FX(green)
	rate	SD/SPD1 (green) SPD2: 100/ 1000 (green)
	Data	TP (green)
	Single / duplex	FDX (green)
	Power	PWR (green)
Power		
Working Voltage	AC:100-240V	
Power Consumption	Standby<1W, Full load<5W	
Power Supply	DC:5V/2A industrial power supply	
Lightning protection & Certification		
Lightning protection	Lightning protection: 4KV 8/20us, Protection level: IP30	
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class A; RoHS	
Physical Parameter		
Operation TEMP	-20~+55°C;5%~90% RH Non condensing	
Storage TEMP	-20~+75°C;5%~95% RH Non condensing	
Dimension (L*W*H)	94mm* 71mm*27mm	
Installation	Desktop, 4N-2U12 , 4N-2U14 slot rack	



4NSYS Co., Ltd.

3F Hana Bldg, 118-2 Oryu-Dong, Guro-Gu, Seoul, Korea, 152100, Korea (South)

Tel : +82-2-2685-7300 Email : sales@4nsystech.com

www.4nsystech.com

South Korea



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