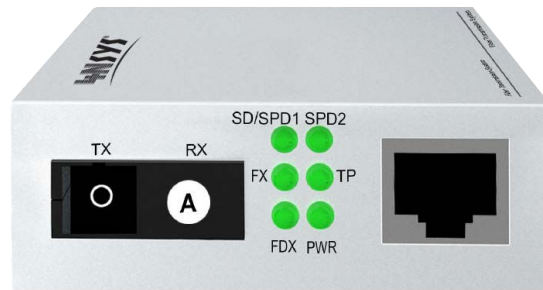


# 4N-101GSW-SC

2-port 10/100/1000M WDM Media Converter ( Duplex Single-mode Single-fiber SC )



## Product Overview

The 4N-101GSW-SC Series is a 10/100/1000Mbps Gigabit Ethernet Fiber Media Converter independently developed by 4NSYS. It is equipped with one 10/100/1000Base-T RJ45 port and one 1000Base-FX SC fiber port, supporting 1000Mbps optical data transmission over 8/125 $\mu$ m, 9/125 $\mu$ m, and 10/125 $\mu$ m single-mode optical fiber. The series supports multiple fiber transmission options, including multimode dual-fiber, single-mode dual-fiber, and single-mode single-fiber solutions.

The media converter adopts an enterprise-class carrier-grade chipset design, providing stable performance, high reliability, and cost-effective deployment. It is suitable for various optical fiber access applications such as video surveillance systems, wireless network coverage, intelligent transportation systems, and Safe City projects.

The unmanaged design supports plug-and-play operation with no configuration required, making installation simple and convenient.

## Key Features

- The 4N-101GSW-SC is a Gigabit Ethernet Fiber Media Converter featuring one 10/100/1000Base-T RJ45 port and one 1000Base-FX SC fiber port for electrical-to-optical signal conversion.
- The 4N-101GSW-SC adopts WDM (Wavelength Division Multiplexing) technology, enabling data transmission over a single-mode optical fiber at distances of up to 40km. By utilizing a single fiber for both transmitting and receiving data, the deployment cost of optical cabling can be significantly reduced.
- The 4N-101GSW-SC transmits data at a wavelength of 1310nm and receives data at 1550nm. Therefore, the remote device connected to the 4N-101GSW-SC should transmit at 1550nm and receive at 1310nm for proper operation.
- Another compatible 4NSYS WDM media converter with opposite wavelength configuration can be used as the paired device for the 4N-101GSW-SC.
- Besides, this media converter can be used as a standalone device (no rack required) or installed with the 4NSYS 4N-2U14 Media Converter Chassis. The TX port supports auto MDI/MDI-X, auto-negotiation, full-duplex flow control, Link Fault Pass Through (LFPT), and Extra-Long Packet forwarding up to 1.6KB for efficient and reliable Ethernet connectivity.

## Model

**4N-101GSW-SC10** :Single-Mode Duplex SC Fiber Media Converter, Transmission Distance up to 10km

**4N-101GSW-SC20** :Single-Mode Duplex SC Fiber Media Converter, Transmission Distance up to 20km

**4N-101GSW-SC40** :Single-Mode Duplex SC Fiber Media Converter, Transmission Distance up to 40km



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Model	4N-101GSW-SC(X)
<b>Interface Characteristics</b>	
Fixed Port	1* 10/100/1000Base-T RJ45 port 1* 1000Base-X uplink SC fiber port
Ethernet Port	10/ 100/ 1000Base-T auto-sensing, full duplex MDI/MDI-X 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	8/125μm, 9/125μm, and 10/125μm Single-Mode Fiber 10/20/40km, SC port
Wavelength/Distance	A-End : TX1310nm / RX1550nm, 0 ~ 40KM B-End : TX1550nm / RX1310nm, 0 ~ 40KM A-End : TX1490nm / RX1550nm, 0 ~ 120KM B-End : TX1550nm / RX1490nm, 0 ~ 120KM
<b>Chip Parameter</b>	
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
Buffer Memory	3Mpps
MAC	2K
Jumbo Frame / Extra-Long Packet	Up to 1.6KB
Link Fault Pass Through	Supported
LED Indicator	Fiber / Rate / Data / Link-Act / Duplex / Power
<b>Power</b>	
Working Voltage	AC:100-240V
Power Consumption	Standby<1W, Full load<5W
Power Supply	DC:5V/2A industrial power supply
<b>Lightning protection &amp; Certification</b>	
Lightning protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS
<b>Physical Parameter</b>	
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-2U14 slot rack