

Gigabit Singlemode Fiber to Ethernet Media Converter, SC, 1310 nm, 20 km (12.4 mi.)

MODEL NUMBER: N785-INT-SC-SM



Media converter lets you extend your copper Gigabit Ethernet network connection up to 20 km (12.4 mi.) over fiber optic cable.

Features

Extend Your Gigabit Ethernet Signal up to 12.4 Miles via SC Singlemode Fiber Cable This economical unit converts a copper Ethernet signal to singlemode fiber (and vice versa) to extend a Gigabit Ethernet connection up to 12.4 miles (20 kilometers). Because Cat5e/6 cables are limited to only 100 meters, it is more effective to couple the N785-INT-SC-SM with singlemode fiber cable to reach greater distances. This could include providing network connectivity to employees in a secluded area of a facility, college or branch office or connecting multiple office workstations to a switch located in a separate building.

Supports Auto-Sensing of Network Speed and Other Advanced Functions Monitoring and controlling your network nodes is easy with the N785-INT-SC-SM's advanced features, such as automatic network speed sensing, full/half-duplex auto-detection and automatic MDI/MDIZ configuration. Six LEDs indicate the converter's Ethernet network and fiber link status at a glance.

Supports Singlemode Fiber Cable with SC Connectors Two N785-INT-SC-SM converters are needed to extend an Ethernet network connection. Singlemode fiber optic cabling with SC ends (such as N356-Series, sold separately) connect the two converters. Copper Cat5e/6 cabling (see N201-Series, sold separately) connects one converter to your network device, such as a server, and the other converter to a network switch.

Completely Plug-and-Play with No Additional Software Required for Connection The compact metal converter is easy to install and set up with no software or drivers required. The included power supply connects to a convenient AC outlet with no computer or other signal source needed. International plug adapters for North America (NEMA 5-15P), the United Kingdom (BS 1363), Europe (CEE 7/16 Schuko) and Australia (AS/NZS 3112) are included.

Highlights

- Extends your copper Gigabit Ethernet network past the standard 100 m limit
- Supports singlemode fiber optic cable with SC connectors
- RJ45 jack supports auto-MDI/MDIZ to bridge various network devices
- Supports both full- and half-duplex operation
- Includes North America, U.K., Europe and Australia plug adapters

Applications

- Extend a Gigabit Ethernet network up to 12.4 mi. on a college campus or large corporate center
- Provide network connectivity to employees in a secluded area of a facility or branch office
- Connect multiple office workstations to a switch installed in a data center in another building

System Requirements

- Gigabit Ethernet network
- Singlemode SC fiber optic cabling up to 20 km (12.4 mi.)

Package Includes

- N785-INT-SC-SM Gigabit Singlemode Fiber to Ethernet Media Converter, 1310 nm, 20 km
- International power supply (Input: 100–240V)
- (4) International plug adapters (North America, U.K., Europe, Australia)
- Owner's manual

Specifications

OVERVIEW	
UPC Code	037332236364

Product Type	Fiber to Ethernet
Technology	Cat5/5e; Cat6; Cat6a; Singlemode
Host Connector	RJ45 (FEMALE)
Mode Type	Singlemode
DISPLAY	
Accessories (Included)	External Power Supply (Input: 100-240V, 50/60Hz, 0.35A; Output: 5V/2A)
NETWORK	
Network Ports	RJ45 (FEMALE); SC (FEMALE)
INPUT	
AC Power Adapter Plug(s)	AS/NZS 3112 Australia; BS 1363 UK; CEE 7/16 Schuko; NEMA 1-15P North America
AC Power Adapter Input Specs (V / Hz / A)	100-240V / 50/60HZ / 0.35A
AC Power Adapter Output Specs (V / A)	5V / 2A
AC Power Adapter Cord Length (ft.)	4.5
AC Power Adapter Cord Length (m)	1.38
POWER	
Power Source Type	AC Adapter
AC Adapter	Input: 100-240V, 50/60Hz, 0.35A; Output: 5V, 2A
DC Barrel Plug	OD: 5.5 x 2.1 x 7.5mm, Positive Pin, Negative Sleeve
CONNECTIONS	
Side A - Connector 1	RJ45 (FEMALE)
Side B - Connector 1	SC DUPLEX (FEMALE)
USER INTERFACE, ALERTS & CONTROLS	
LED Indicators	DUP (UTP port duplex LED), FP-Link (Fiber port link status LED), PWR (Power LED), TX/RX (UTP Port link status LED), 1000 (UTP port speed LED)
PHYSICAL	
Color	Black
Power Cord Color	Black
Shipping Dimensions (hwd / in.)	2.17 x 9.45 x 5.12
Shipping Weight (lbs.)	0.96
Unit Dimensions (hwd / in.)	1.000 x 3.700 x 2.760
Unit Dimensions (hwd / cm)	2.6 x 9.4 x 7.0



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SERIES

Unit Packaging Type	Box
Unit Weight (lbs.)	0.44
Unit Weight (kg)	0.20
Housing	Metal
ENVIRONMENTAL	
Operating Temperature Range	32° to 122°F (0° to 50°C)
Storage Temperature Range	-4° to 158°F (-20° to 70°C)
Relative Humidity	5% to 90% RH, Non-Condensing
COMMUNICATIONS	
Network Compatibility	1 Gbps (Gigabit)
Network Speed Details	1000 Mbps (Gigabit)
Wavelength	1310nm
Transmission Distance	20 km
IEEE Standards Supported	802.3ab; 802.3z; 802.3u
Wavelength Division Multiplexing (WDM)	Yes
FEATURES & SPECIFICATIONS	
Data Transfer Rate	1 Gbps
Mounting Accessory Included	No
Working Mode	Full/Half Duplex
Auto MDIX Support	Yes
DIN Mountable	No
Optical Port	SC
STANDARDS & COMPLIANCE	
External Power Supply Certifications	CCC; CE; FCC; GS; PSE; TUV; UL; cUL
Product Compliance	RoHS; CE (Europe); FCC (USA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty

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