

## 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
<b>DISPLAY</b>	
Accessories (Included)	External Power Supply (Input: 100-240V, 50/60Hz, 0.35A; Output: 5V/2A)
<b>NETWORK</b>	
Network Ports	RJ45 (FEMALE); SC (FEMALE)
<b>INPUT</b>	
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
<b>POWER</b>	
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
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
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)
<b>PHYSICAL</b>	
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
Unit Packaging Type	Box
Unit Weight (lbs.)	0.44

Unit Weight (kg)	0.20
Housing	Metal
<b>ENVIRONMENTAL</b>	
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
<b>COMMUNICATIONS</b>	
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
<b>CONNECTIONS</b>	
Side A - Connector 1	RJ45 (FEMALE)
Side B - Connector 1	SC DUPLEX (FEMALE)
<b>FEATURES &amp; SPECIFICATIONS</b>	
Data Transfer Rate	1 Gbps
Mounting Accessory Included	No
Working Mode	Full/Half Duplex
Auto MDIX Support	Yes
DIN Mountable	No
Optical Port	SC
<b>STANDARDS &amp; COMPLIANCE</b>	
External Power Supply Certifications	CCC; CE; FCC; GS; PSE; TUV; UL; cUL
Product Compliance	RoHS; CE (Europe); FCC (USA)
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	2-year limited warranty



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