

## 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 |



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|                                              |                                                                                                                                               |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 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>CONNECTIONS</b>                           |                                                                                                                                               |
| Side A - Connector 1                         | RJ45 (FEMALE)                                                                                                                                 |
| Side B - Connector 1                         | SC DUPLEX (FEMALE)                                                                                                                            |
| <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                                                                                                                               |



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|----------------------------------------|-------------------------------------|
| 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>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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