

## Gigabit Multimode Fiber to Ethernet Media Converter, POE+ - 10/100/1000 LC, 850 nm, 550M (1804.46 ft.)

MODEL NUMBER: N785-P01-LC-MM1



This Ethernet extender lets you send Gigabit Ethernet data and power up to 550 m (1804 ft.), well beyond the 100M (328-ft.) limit of conventional copper cable.

### Features

**Extends Power and Data to a PoE+ Device up to 550 Meters via LC Multimode Fiber Cable** This Ethernet extender converts a multimode fiber optical signal to a copper Ethernet signal that extends both power (48 VDC) and 10/100/1000 Mbps Gigabit Ethernet to a PoE+ (Power over Ethernet) device. Because Cat5e/6 cables are limited to only 100 meters, it is more effective to couple the N785-P01-LC-MM1 with multimode fiber cable to reach greater distances. This could include providing both data and power to PoE and PoE+ devices, such as security cameras, VoIP telephones, point-of-sale kiosks and access control devices.

**Supports Power over Ethernet to Save You Money and Give You More Installation Choices** PoE saves you the expense and effort of purchasing, connecting and installing individual power supplies for each device. It also helps you install PoE devices in areas far away from AC outlets, such as poles or ceilings.

**Supports Auto-Sensing of Network Speed and Other Advanced Functions** Monitoring and controlling your network nodes is easy with the N785-P01-LC-MM1'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 power, PoE, Ethernet network and fiber link statuses at a glance. Link fault pass through (LFP) monitors both the LC and RJ45 ports to ensure link status remains active.

**Works in tandem with N785-001-LC-MM Media Converter** This media converter connects to the N785-001-LC-MM using multimode fiber optic cabling with LC ends (such as N520-Series, sold separately) to extend an Ethernet network connection up to 550 meters. Use Cat5e/6 cabling (such as N001- or N201-Series cables) to deliver data and power to a 10/100/1000 Mbps PoE device up to 100 meters (328 feet) from the N785-P01-LC-MM1.

**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.

### Highlights

- Extends power (48 VDC) + data (1000 Mbps) to any edge PoE+ device
- Supports multimode fiber optic cable with LC connectors up to 550 m (1804 ft.)
- RJ45 jack supports auto-MDI/MDIZ to bridge various network devices
- Supports both full- and half-duplex operation
- Works in tandem with N785-001-LC-MM (sold separately)

### Applications

- Deliver power and data to a PoE device mounted somewhere that is difficult to reach or without AC outlets
- Extend a Gigabit Ethernet network beyond the standard 100 m reach of copper cabling

### System Requirements

- 10/100/1000 Mbps Gigabit Ethernet network
- Multimode LC fiber optic cabling up to 550 m (1804 ft.)
- N785-001-LC-MM media converter

### Package Includes

- N785-P01-LC-MM1 Gigabit Multimode Fiber to Ethernet Extender
- External power supply with 3.6-ft. (1.09 m) cord and NEMA 5-15P plug (Input: 100-240V, 50/60 Hz, 1.5A; Output: 48V 1.25A)
- Owner's manual

## Specifications



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| OVERVIEW                                  |                                                                                                                                                                  |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UPC Code                                  | 037332236906                                                                                                                                                     |
| Product Type                              | Fiber to PoE                                                                                                                                                     |
| Technology                                | Cat5/5e; Cat6; Cat6a; Multimode; PoE                                                                                                                             |
| Mode Type                                 | Multimode                                                                                                                                                        |
| DISPLAY                                   |                                                                                                                                                                  |
| Accessories (Included)                    | External Power Supply (Input: 100-240V, 50/60Hz, 1.5A; Output: 48V/1.25A)                                                                                        |
| NETWORK                                   |                                                                                                                                                                  |
| Network Ports                             | RJ45 (FEMALE); LC (FEMALE)                                                                                                                                       |
| INPUT                                     |                                                                                                                                                                  |
| AC Power Adapter Plug(s)                  | NEMA 5-15P North America                                                                                                                                         |
| AC Power Adapter Input Specs (V / Hz / A) | 100-240V / 50/60Hz / 1.5A                                                                                                                                        |
| AC Power Adapter Output Specs (V / A)     | 48V / 1.25A                                                                                                                                                      |
| AC Power Adapter Cord Length (ft.)        | 3.6                                                                                                                                                              |
| AC Power Adapter Cord Length (m)          | 1.1                                                                                                                                                              |
| POWER                                     |                                                                                                                                                                  |
| Power Source Type                         | AC Adapter with detachable power cord                                                                                                                            |
| AC Adapter                                | Input: 100-240V, 50/60Hz, 1.5A; Output: 48V, 1.25A                                                                                                               |
| DC Barrel Plug                            | OD: 5.5 x 2.1 x 10mm, Positive Pin, Negative Sleeve                                                                                                              |
| CONNECTIONS                               |                                                                                                                                                                  |
| Side A - Connector 1                      | RJ45 (FEMALE)                                                                                                                                                    |
| Side B - Connector 1                      | LC DUPLEX (FEMALE)                                                                                                                                               |
| PoE Type                                  | Type 2 PoE+ (30W, IEEE 802.3at)                                                                                                                                  |
| USER INTERFACE, ALERTS & CONTROLS         |                                                                                                                                                                  |
| LED Indicators                            | PWR (Power LED), 1000M (UTP port speed LED), PoE (PoE status LED), SD (Fiber signal LED), L/A TP (UTP Port link status LED), L/A FP (Fiber port link status LED) |
| PHYSICAL                                  |                                                                                                                                                                  |
| Color                                     | Black                                                                                                                                                            |
| Power Cord Color                          | Black                                                                                                                                                            |
| Shipping Weight (lbs.)                    | 0.00                                                                                                                                                             |
| Shipping Weight (kg)                      | 0.00                                                                                                                                                             |



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|                                        |                                                     |
|----------------------------------------|-----------------------------------------------------|
| Unit Dimensions (hwd / in.)            | 0.980 x 3.740 x 2.760                               |
| Unit Dimensions (hwd / cm)             | 2.4892 x 9.4996 x 7.0104                            |
| Unit Packaging Type                    | Box                                                 |
| Unit Weight (lbs.)                     | 0.44                                                |
| Unit Weight (kg)                       | 0.20                                                |
| Housing                                | Metal                                               |
| <b>ENVIRONMENTAL</b>                   |                                                     |
| Operating Temperature Range            | -4° to 140°F (-20° to 60°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                  | 10 Mbps; 100 Mbps (Fast Ethernet); 1 Gbps (Gigabit) |
| Network Speed Details                  | 10 Mbps; 100 Mbps; 1000 Mbps                        |
| Wavelength                             | 850nm                                               |
| Transmission Distance                  | 550 m                                               |
| IEEE Standards Supported               | 802.3; 802.3u; 802.3ab; 802.3z                      |
| Wavelength Division Multiplexing (WDM) | Yes                                                 |
| <b>FEATURES &amp; SPECIFICATIONS</b>   |                                                     |
| Data Transfer Rate                     | 1 Gbps; 10 Mbps; 100 Mbps                           |
| Mounting Accessory Included            | No                                                  |
| Working Mode                           | Full/Half Duplex                                    |
| Auto MDIX Support                      | Yes                                                 |
| DIN Mountable                          | No                                                  |
| Optical Port                           | LC                                                  |
| <b>STANDARDS &amp; COMPLIANCE</b>      |                                                     |
| External Power Supply Certifications   | CCC; FCC; PSE; UL; cUL                              |
| Product Compliance                     | RoHS; FCC (USA)                                     |
| <b>WARRANTY &amp; SUPPORT</b>          |                                                     |
| Product Warranty Period (Worldwide)    | 2-year limited warranty                             |



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