



# Eaton's Tripp Lite series media and mode converters

Networks that have a mix of copper and fiber infrastructure often require signal conversion and/or a way to transmit signals over long distances without the risk of data degradation. Eaton's Tripp Lite series media and mode converters are used to extend signal transmission over miles of fiber cables between racks in data centers, server rooms, network closets and other IT installations.

## Copper-to-fiber media converters

Copper-to-fiber media converters allow signals to exceed the 100-meter limitation of conventional copper cable by converting Ethernet to a fiber signal.

- Converters with PoE+ (Power over Ethernet) extend Gigabit Ethernet data and power to a PoE+ device, allowing devices to be installed away from AC outlets.

## Fiber mode converters

Fiber mode converters add versatility to fiber networks by converting multimode signals to singlemode signals, allowing longer transmission distances.

## Wide compatibility

- Copper-to-fiber media converters support singlemode and multimode fiber cables (varies by model)
- Fiber mode converters are available for SC, ST and SFP port configurations
- SFP models have an open SFP port, allowing users to install their own transceiver

## Quick signal transmission over long distances

- Models are available for Fast Ethernet (100 Mbps), Gigabit Ethernet (1000 Mbps/1 Gbps) and 10 Gigabit Ethernet (10 Gbps) networks
- Converters allow your network connection to reach hubs, switches and other devices located up to 80 km (50 miles) away (varies by model)
- MDI/MDIX crossover detection automatically detects and chooses the connection required, eliminating the need for crossover cables

## Signaling indicators

LEDs indicate Ethernet connections, transmission speed, power and fiber link status (LEDs vary by model).

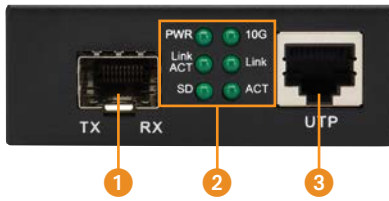
## Durable metal housing

- Rugged metal cases withstand everyday use
- Converters have a wide operating temperature range for use in a variety of environments



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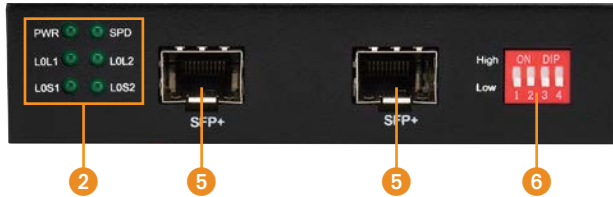
**Feature focus** (See [TrippLite.Eaton.com](http://TrippLite.Eaton.com) for model-specific configurations.)



Model: N786-001-SFP (front)



Model: N786-001-SFP (rear)



Model: N786-MDC-SFSPSFP (front)



Model: N786-MDC-SFSPSFP (rear)

- 1 SFP port for transceiver**
- 2 Status LEDs (vary by model)**  
Monitor power, speed, Ethernet and fiber link status at a glance.
- 3 RJ45 network device connector port**
- 4 External power connector**  
External power supply is included.
- 5 SFP ports (mode converter)**  
These ports are used for singlemode to multimode signal conversion.
- 6 DIP switches**  
Choose between two transmission speed ranges.

## Specifications

Catalog number	Port types	Fiber mode type	Network speed	Transmission distance	Operating temperature range
<b>Copper-to-fiber media converters</b>					
N784-001-SC	SC/RJ45	Multimode	100 Mbps	Up to 2 km	0° to 50°C (32° to 122°F)
N784-001-SC-15	SC/RJ45	Singlemode	100 Mbps	Up to 15 km	-20° to +60°C (-4° to +140°F)
N784-001-SC-MM	SC/RJ45	Multimode	100 Mbps	Up to 550 m	-20° to +60°C (-4° to +140°F)
N784-001-ST	ST/RJ45	Multimode	100 Mbps	Up to 2 km	0° to 50°C (32° to 122°F)
N785-001-LC-MM	LC/RJ45	Multimode	1 Gbps	Up to 550 m	0° to 60°C (32° to 140°F)
N785-001-SC	SC/RJ45	Multimode	1 Gbps	Up to 2 km	0° to 60°C (32° to 140°F)
N785-001-SC-MM	SC/RJ45	Multimode	1 Gbps	Up to 550 m	0° to 60°C (32° to 140°F)
N785-INT-LC-MM	LC/RJ45	Multimode	1 Gbps	Up to 550 m	0° to 50°C (32° to 122°F)
N785-INT-PLCMM1	LC/RJ45 with PoE+	Multimode	1 Gbps	Up to 550 m	-20° to +60°C (-4° to +140°F)
N785-INT-PSCMM2	SC/RJ45 with PoE+	Multimode	1 Gbps	Up to 2 km	-20° to +60°C (-4° to +140°F)
N785-INT-PSFP	SFP/RJ45 with PoE+	Singlemode/Multimode	1 Gbps	550 m to 10 km	-20° to +60°C (-4° to +140°F)
N785-INT-SC	SC/RJ45	Multimode	1 Gbps	Up to 2 km	0° to 60°C (32° to 140°F)
N785-INT-SC-MM	SC/RJ45	Multimode	1 Gbps	Up to 550 m	0° to 60°C (32° to 140°F)
N785-INT-SC-SM	SC/RJ45	Singlemode	1 Gbps	Up to 20 km	0° to 50°C (32° to 122°F)
N785-P01-LC-MM1	LC/RJ45 with PoE+	Multimode	1 Gbps	Up to 550 m	-20° to +60°C (-4° to +140°F)
N785-P01-SC-MM1	SC/RJ45 with PoE+	Multimode	1 Gbps	Up to 550 m	-20° to +60°C (-4° to +140°F)
N785-P01-SC-MM2	SC/RJ45 with PoE+	Multimode	1 Gbps	Up to 2 km	-20° to +60°C (-4° to +140°F)
N785-P01-SC-SM1	SC/RJ45 with PoE+	Singlemode	1 Gbps	Up to 20 km	-20° to +60°C (-4° to +140°F)
N785-P01-SFP	SFP/RJ45 with PoE+	Singlemode/Multimode	1 Gbps	550 m to 10 km	-20° to +60°C (-4° to +140°F)
N786-001-SFP	SFP+/RJ45	Singlemode/Multimode	10 Gbps	300 m to 80 km	0° to 55°C (32° to 131°F)
<b>Fiber mode converters</b>					
N784-MDC-1STST	ST/ST	Singlemode/Multimode	100 Mbps	2 km to 10 km	0° to 70°C (32° to 158°F)
N784-MDC-4SCSC	SC/SC	Singlemode/Multimode	100 Mbps	2 km to 40 km	0° to 70°C (32° to 158°F)
N784-MDC-4STST	ST/ST	Singlemode/Multimode	100 Mbps	2 km to 40 km	0° to 70°C (32° to 158°F)
N784-MDC-6SCSC	SC/SC	Singlemode/Multimode	100 Mbps	2 km to 60 km	0° to 70°C (32° to 158°F)
N785-MDC-1SCSC	SC/SC	Singlemode/Multimode	1 Gbps	550 m to 10 km	0° to 70°C (32° to 158°F)
N786-MDC-SFSPSFP	SFP+/SFP+	Singlemode/Multimode	10 Gbps	Up to 80 km	-20° to +60°C (-4° to +140°F)

Due to continuous improvement programs, all specifications are subject to change without notice. See [TrippLite.Eaton.com](http://TrippLite.Eaton.com) for the most up-to-date specifications. Two-year limited warranty. Models include an external power supply. Select models include plug adapters for North America, Europe, U.K. and Australia.

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