

ETHERNET EXTENDERS—ULTRA-MINIATURE

Upgrade twisted-pair networks to fiber and extend Ethernet connections up to 18.6 miles (30 km) with Patton's Model 1170 Ultra-Miniature Fiber Ethernet Modems.

Ethernet Fiber Modems

Patton Model 1170 Multimode & Single Mode Series

Patton's Ultra-Miniature Ethernet Fiber Modems provide a cost-effective Plug & Play solution for extending your twisted-pair networks to fiber. When used in pairs, the Patton Model 1170 extends your Ethernet connections up to 1.24 miles (2 km) using readily available multimode fiber, or 18.6 miles (30 km) over single mode fiber. The Patton Model 1170 Series offers a flexible and standards-based Ethernet extension and conversion for a variety of Ethernet networks with the added bonus of protection against electromagnetic interference (EMI), a common problem associated with copper transmissions.

Ethernet Fiber Modems directly connect to Ethernet devices supporting 10Base-T or 100Base-TX. The Model 1172 features 10/100 auto-negotiation, making it the perfect choice when planning a future upgrade of existing 10Base-T networks. All Model 1170 Ethernet Fiber Modems are ultra-miniature in size and feature a shielded RJ-45 Ethernet jack, and MDI/MDI-X switch for quick and easy installation. The Model 1170M (Multimode) Series offer a choice of ST or SC style fiber optic connections. Built-in auto-sensing capabilities enable full or half-duplex Ethernet operation with no configuration required! Once up and running, LED indicators provide operational status on power, fiber link and activity, and copper/twisted-pair link and activity.

Let Patton's Ethernet Fiber Modems extend your network's reach and performance with the speed and security of fiber! For more information visit www.patton.com.

Ethernet Extension & Access
Extend Ethernet connections up to 1.24 miles (2 km) over multimode fiber and 18.6 miles (30 km) over single mode fiber

Update your LAN
Upgrade existing twisted-pair networks and get the speed and security of fiber

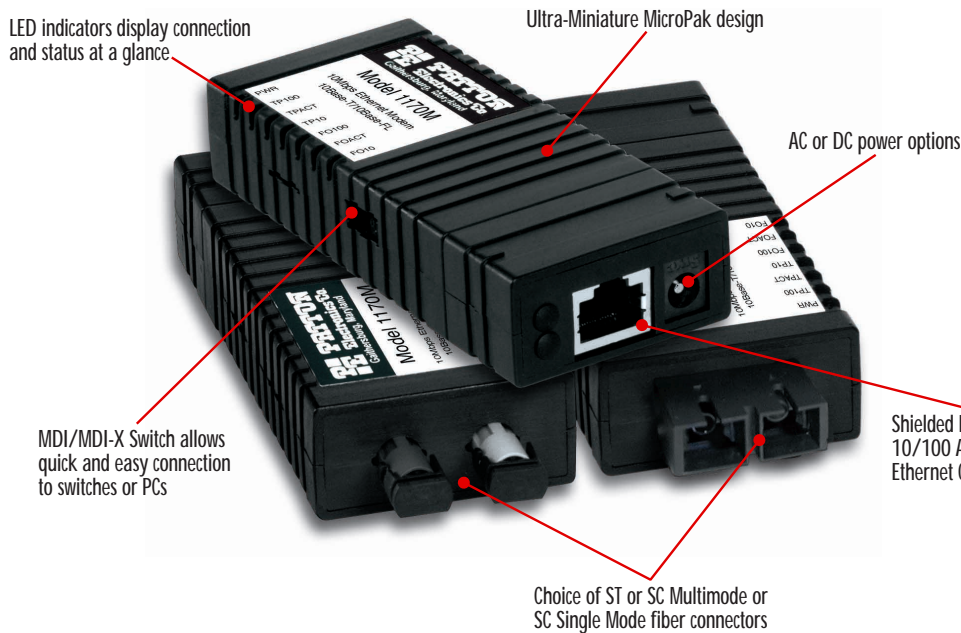
Solve Equipment Mismatches
Easily connect network equipment with twisted-pair and fiber interfaces

Eliminate Crossover Cables
MDI/MDI-X switch settings match the connected equipment

Standards Compliant
IEEE 802.3, 10Base-T, 10Base-FL, 100Base-FX, 100Base-SX, 100Base-TX

Easy to Monitor
LED indicators provide operating status and assist with troubleshooting

Plug & Play
Simple end-user installation and operation



Rack mountable using Patton's 1001MP16 Universal Mounting Panel

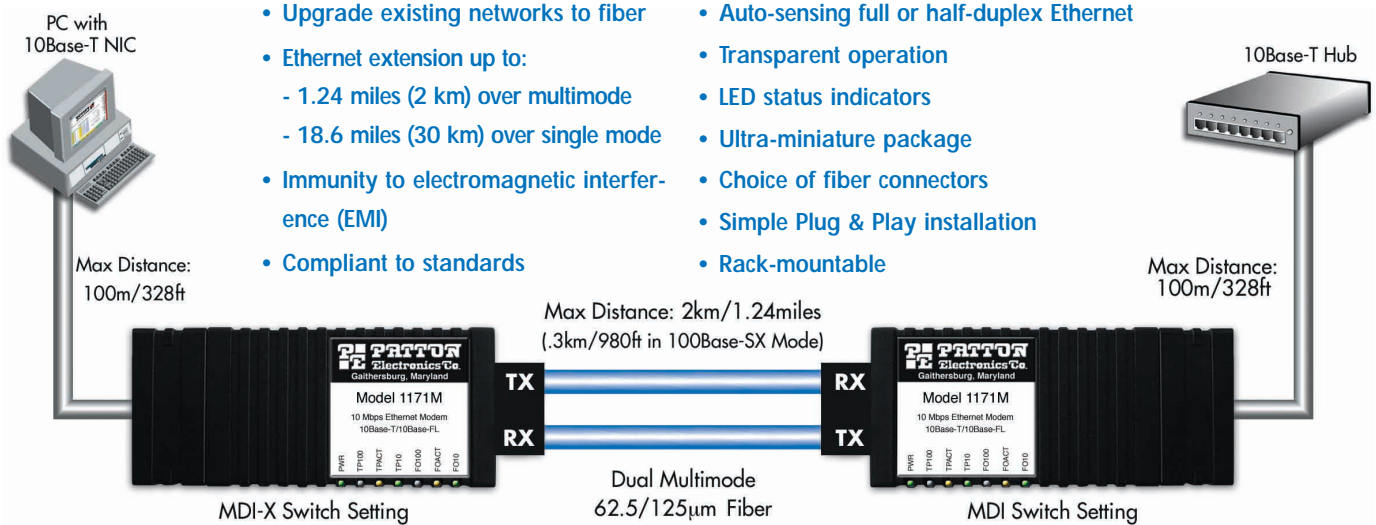


These feature packed media converters come in an ultra-mianture case that's small enough to fit in your pocket

Patton 1170 Series Product Selection Chart

Model	Twisted-Pair Standard	Fiber Standard	Fiber Cable Type	Fiber Interface (XX)	Wavelength (nm)	Distance	Transmission
1170M-XX	100Base-TX	100Base-FX	Multimode	ST or SC	1300	2 km	100 Mbps
1171M-XX	10Base-T	10Base-FL	Multimode	ST or SC	850	2 km	10 Mbps
1172M-XX	10Base-T/100Base-TX	10/100Base-FX	Multimode	ST or SC	1300	2 km	10/100 Mbps
1170S-SC/15K	100Base-TX	100Base-FX	Single Mode	SC	1310	15 km	100 Mbps
1171S-SC/15K	10Base-T	10Base-FX	Single Mode	SC	1310	15 km	10 Mbps
1172S-SC/15K	10Base-T/100Base-TX	10/100Base-FX	Single Mode	SC	1310	15 km	10/100 Mbps
1170S-SC/30K	100Base-TX	100Base-FX	Single Mode	SC	1310	30 km	100 Mbps
1171S-SC/30K	10Base-T	10Base-FX	Single Mode	SC	1310	30 km	10 Mbps
1172S-SC/30K	10Base-T/100Base-TX	10/100Base-FX	Single Mode	SC	1310	30 km	10/100 Mbps

What does the 1170 Series Offer?



- Upgrade existing networks to fiber
- Ethernet extension up to:
 - 1.24 miles (2 km) over multimode
 - 18.6 miles (30 km) over single mode
- Immunity to electromagnetic interference (EMI)
- Compliant to standards
- Auto-sensing full or half-duplex Ethernet
- Transparent operation
- LED status indicators
- Ultra-miniature package
- Choice of fiber connectors
- Simple Plug & Play installation
- Rack-mountable

Specifications

Fiber Interface	Multimode: Dual female ST or SC style fiber connectors; Single mode: Dual female SC style connectors only	LED Indicators	Power, Twisted-Pair Link and Activity, Fiber Optic Link and Activity
Fiber Cable Type	Multimode: Dual Strand, 62.5/125 µm recommended; Single mode: Dual Strand, 9/125 µm recommended	Power Supply	External AC and DC options. AC: 120 VAC, and universal input (UI) – 100/240 VAC, DC: -48 VDC, -24 VDC, and -12 VDC (optional)
Twisted-Pair Interface	Shielded RJ-45 jack, auto-sensing full or half-duplex operation	Compliance	FCC Part 15 Class A; EMC Directive 89/336/EEC, Low Voltage Directive 73/23/EEC; CE Mark
Twisted-Pair Cable Type	Category 5 or better recommended	Environment	1170M/1170S/1171S/1172M/1172S: Temperature: 32–95°F (0–35°C) Humidity: Up to 90%, non-condensing 1171M: Temperature: 32–122°F (0–50°C) Humidity: Up to 90%, non-condensing
Distance	1170M Series: 2 km (1.24 miles) in 10Base-FL & 100Base-FX modes, 300m (980ft) in 100Base-SX Mode; 1170S Series: 15 km (9.3 miles) and 30 km (18.6 miles)	Dimensions	Ultra-miniature 4.25L x 1.7W x 0.8H in. (10.8 L x 4.3W x 2.0H cm)
Transmission	10 or 100 Mbps (depending on model selection and mode of operation)	Weight	0.15 lbs (0.07 kg) without power supply
Protocol	Transparent to higher layer protocols		
Standards	IEEE 802.3, IEEE 802.3u, 10Base-T, 10Base-FL, 100Base-FX, 100Base-SX, 100Base-TX		



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