PATTON ELECTRONICS COMPANY

PRODUCT QUICK REFERENCE

FAQs

Product Related Questions

What is the primary application for the Fiber Ethernet Extender?

Patton's Fiber Ethernet Extenders utilize fiber technology to increase Ethernets distance beyond its 328 ft limitations. Common applications include service delivery in MxU environments, connecting remote sites/offices/equipment, or service delivery, Patton Fiber Ethernet modems offer unparalleled performance while future proofing a network.

What is the 1170 Series?

The Fiber Ethernet modems provide a cost-effective plug and play solution for extending your twisted pair Ethernet networks over multimode or single mode fiber at distances up to 30km.

Which Ethernet Fiber Modem is the product for me?

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

What devices typically connect to a Model 1170?

Devices that typically connect to the Model 1170 are any Ethernet enabled devices such as bridges, PC NIC cards, switches, routers, etc.

How do the Fiber Ethernet Modems establish a link?

1) Units are connected to Ethernet and receive Ethernet negotiation.
2) Units attempt to establish communication with each other.
3) Ethernet negotiation information is passed, and a common standard is found.
4) Units establish a full link as indicated by LEDs.
5) Units transfer LAN traffic and operate with complete transparency.

Do the Fiber Ethernet Modems operate in pairs?

Yes, they can only be operated in pairs.

What protocols does the Model 1170 support?

The Model 1170 is transparent to all upper layer protocols, including VLAN tagged frames.

What items are configurable by the user?

An MDI/MDI-X switch is provided on the Ethernet side to facilitate connection to either a hub or PC NIC. This allows the use of either a straight through or cross-over CAT5 twisted pair cable from the 1170 to the Ethernet enabled device.

Can I connect an Model 1170 between two devices at different speeds?

As long as the devices auto negotiate, any combination of speeds is permissible for 10/100 versions. However, both ends of the link must support the same speed. Ex: One side has a PC NIC capable of 10/100 auto sensing. The remote side has a 10BaseT hub. The units will link at 10BaseT, if they support operation at 10BaseT. However, if one side is a 10BaseT hub and the other side is a 100BaseT only network card, the units will not link.

Does the Model 1170 support full duplex?

Yes, if both sides of the link support it as well.

Fiber related questions

What type of fiber is required?

Multimode: Standard multimode, 62.5/125 micron fiber pair capable of the transmission of 850nm signals.
Single Mode: Standard grade, non-polarized fiber pair capable of handling 1310 and/or 1550 nm wavelength.

Power Supply

What are the power supply options for the Fiber Ethernet Modems?

The Fiber Ethernet Modems come standard with an external UI (100-240VAC) power supply. DC power supplies of –48, -24, and -12V dc are optional. *The country specific power cord is ordered separately.*