

Ethernet Fiber Optic Link

- 10Mb/s, 100Mb/s or 1Gb/s compatible
- Triple speed auto negotiating RJ45 port
- No special signal coding requirements
- Transmission distances up to 20km
- Immunity to electrical interference
- SNMP Network Control Module compatible

Ethernet Over Fiber

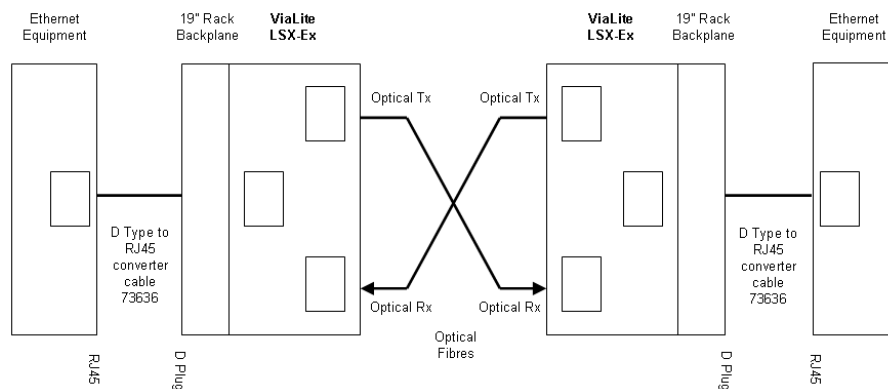
The *ViaLite* Ethernet Fiber Optic Link provides highly reliable, full duplex transmission of Ethernet signals over two single mode optical fibers for distances of up to 20km.

The transceiver module has an auto switching function that can accept 10Mb/s, 100Mb/s or 1Gb/s Ethernet data without need for reconfiguration of the module. Available in the *ViaLite* rack mount package the Ethernet module can be housed in any of the standard racks (3U or 1U) or a standalone package. For users only requiring 100Mb/s a fixed media converter is also available.



The *ViaLite* Ethernet Fiber Optic Link is used in a wide variety of applications. For example, it can be used to carry control and monitoring information from remote locations back to central control stations when only single mode fiber is available between the positions.

A schematic for the operation of the *ViaLite* Ethernet Fiber Optic Link is shown below:-



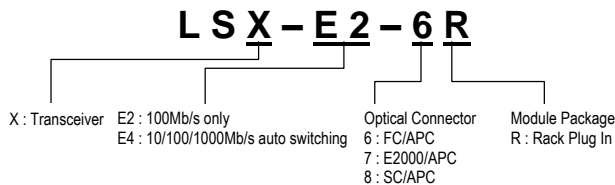
Data Performance Characteristics

	Ethernet E4 Rack Module	Ethernet E2 Rack Module
Data Rate	10/100/1000 Mb/s (auto negotiating)	100 Mb/s (fixed)
Fiber Interface	Fast Ethernet IEEE 802.3u (10/100/1000BASE-TX, 1000BASE-FX) Full duplex, two fibers	Fast Ethernet IEEE 802.3u (100BASE-TX, 100BASE-FX) Full duplex, two fibers
Operating Temperature	0°C to +50°C	0°C to +50°C
Storage Temperature	-40°C to +80°C	-40°C to +80°C
Indicators	Front Panel LED "Power" Front Panel LED "Copper RX/ACT" Front Panel LED "Copper LINK" Front Panel LED "Fiber RX/ACT" Front Panel LED "Fiber LINK"	Front Panel LED "Power" Front Panel LED "Copper RX/ACT" Front Panel LED "Copper LINK" Front Panel LED "Fiber RX/ACT" Front Panel LED "Fiber LINK"

Optical Performance Characteristics

	Ethernet E4 Rack Module	Ethernet E2 Rack Module
Laser Power Output	Class 1	Class 1
Optical Wavelength	1310 nm ± 20 nm (1550nm/CWDM options)	1310 nm ± 20 nm (1550nm/CWDM options)
Fiber Type	Single Mode 9/125mm, Corning SMF28 or equivalent	Single Mode 9/125mm, Corning SMF28 or equivalent
Optical Connector	FC/APC (E2000/APC and SC/APC options)	FC/APC (E2000/APC and SC/APC options)
Optical Path Length	Up to 20km for 1310nm with single mode fiber	Up to 20km for 1310nm with single mode fiber
Optical Power Budget	10dB (typical fiber losses: fiber 0.4dB/km, connectors 0.5dB)	10dB (typical fiber losses: fiber 0.4dB/km, connectors 0.5dB)

Part Numbers and Options



Note – the standard module has 1310nm laser, 1550nm and CWDM lasers are also available for long haul applications, please contact PPM for part numbers.

Important Note - Ethernet Optical Transceiver Modules with part numbers beginning LSX-E2 and LSX-E4 are not compatible and cannot be used for form a working fibre optic link.

Accessories

LRK2S	3U 8 Module Chassis + 2 PSU's
LPS-M	Main Power Supply Module
LPS-R	Reserve Power Supply Module
75003	Single Module Sleeve
75004	1U 3 Slot Chassis
LRD-x	RF Splitter Module
LRS-xx	1:1 Redundancy Switch
LRT-xx-xx	RF to Fiber Tx Modules
LRR-xx-xx	RF to Fiber Rx Modules
LRC-1	SNMP Network Control Module
75010-xxx	IP rated Outdoor Enclosures

Mechanical Dimensions

