

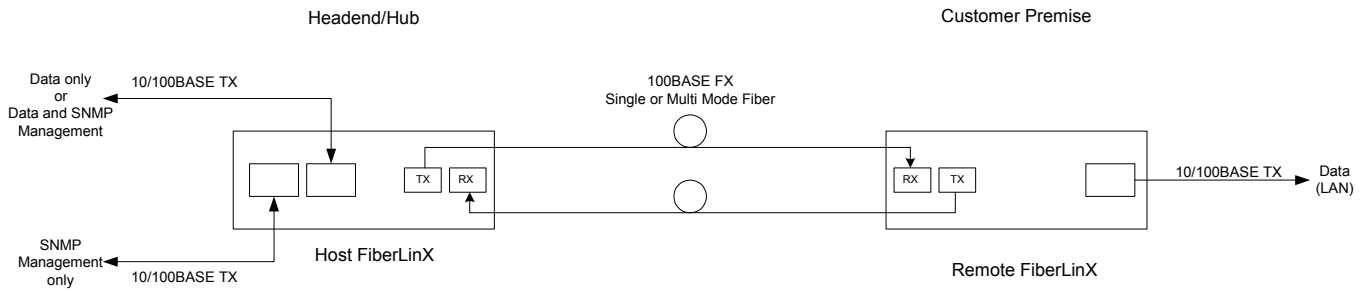
1310 / 1550 nm FiberLinX Modules



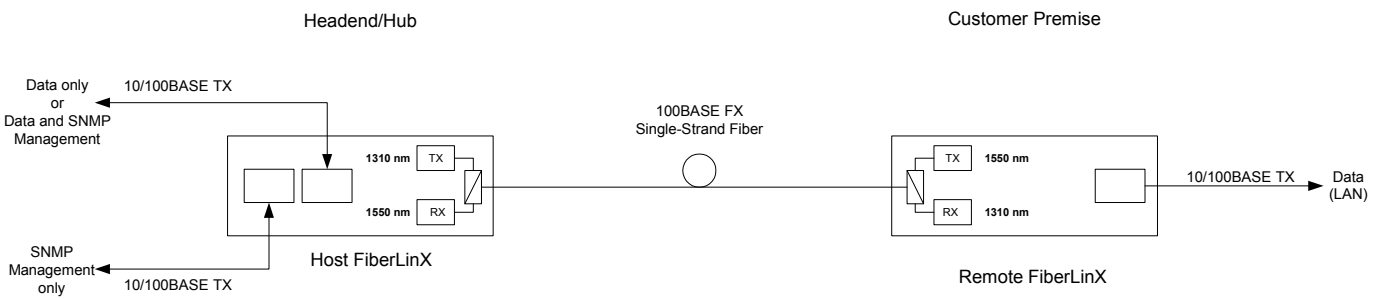
Application

When used in pairs, a Prisma FiberLinX module configured as a Host resides at the headend while another Prisma FiberLinX module configured as a Remote, is installed at the remote customer location, typically on the network edge where the customer network meets the service provider infrastructure. Via SNMP, the Prisma FiberLinX solution monitors the entire link and ensures data integrity while remaining isolated and completely transparent to the customer LAN. A Prisma FiberLinX module can be configured as a Standalone for a single-solution (CPE) application.

2-Fiber Block Diagram



Single-Strand Fiber Block Diagram



1310 / 1550 nm FiberLinX Modules



Specifications

Prisma FiberLinX TX/FX-MM1300

Optical	
Tx Wavelength	1300 nm
Avg. Distance	2 km
Tx optical output range	-20 to -14 dBm
Rx optical input range	-14 to -30 dBm

Prisma FiberLinX TX/FX-SM1310/PLUS

Optical	
Tx Wavelength	1310 nm
Avg. Distance	40 km
Tx optical output range	-15 to -8 dBm
Rx optical input range	-8 to -31 dBm

Prisma FiberLinX TX/FX-SM1310/LONG

Optical	
Tx Wavelength	1310 nm
Avg. Distance	80 km
Tx optical output range	-5 to 0 dBm
Rx optical input range	-2 to -34 dBm

Prisma FiberLinX TX/FX-SM1550/LONG

Optical	
Tx Wavelength	1550 nm
Avg. Distance	80 km
Tx optical output range	0 to -5 dBm
Rx optical input range	-3 to -34 dBm

Prisma FiberLinX TX/SSFX-SM1310 (single-strand fiber)

Optical	
Tx / Rx Wavelength	1310 / 1550 nm
Avg. Distance	20 km
Tx optical output range	-7 to -15 dBm
Rx optical input range	-3 to -33 dBm

Prisma FiberLinX TX/SSFX-SM1550 (single-strand fiber)

Optical	
Tx / Rx Wavelength	1550 / 1310 nm
Avg. Distance	20 km
Tx optical output range	-7 to -15 dBm
Rx optical input range	-3 to -33 dBm

Prisma FiberLinX TX/SSFX-SM1310/PLUS (single-strand fiber)

Optical	
Tx / Rx Wavelength	1310 / 1550 nm
Avg. Distance	40 km
Tx optical output range	-3 to -8 dBm
Rx optical input range	-3 to -33 dBm

Prisma FiberLinX TX/SSFX-SM1550/PLUS (single-strand fiber)

Optical	
Tx / Rx Wavelength	1550 / 1310 nm
Avg. Distance	40 km
Tx optical output range	-3 to -8 dBm
Rx optical input range	-3 to -33 dBm

1310 / 1550 nm FiberLinX Modules



Specifications, continued

Electrical	
Twisted Pair Data Port	IEEE 802.3 10Base-T/100Base-TX for data; RJ-45 connector; Half/Full-Duplex operation
Fiber Data Port	IEEE 802.3 100Base-FX for data; SC or ST connectors; Half/Full-Duplex operation
Twisted Pair Management Port	IEEE 802.3 10Base-T/100Base-TX for management; RJ-45 connector; Half/Full-Duplex operation; can also function as serial port
Standards Compliance	IEEE 802.1Q VLAN, 802.1p and 802.3x Flow Control

Software Configuration and/or Monitoring Via:	
Prisma MIB <i>(see note 1)</i>	<ul style="list-style-type: none"> • Link Status of Ports • Port Type • Fiber Type • SNMP Port (Host/Remote) • SNMP Agent IP Address (Host/Remote/Single) • Link Partner • Traps (Cold Start, Warm Start, Link Up, Link Down, Authentication Failure, Remote Unit Lost, Remote Unit Back Online, Far End TX Link On and Far End TX Link Off)
Prisma MIB - continued <i>(see note 2)</i>	<ul style="list-style-type: none"> • User-Definable Name of Product • User-Definable ID/Name of Each Port • Enable/Disable Ports • Enable/Disable FiberAlert* • Set Duplex Mode for Fiber Ports • Set Auto-Negotiation/Speed for Twisted Pair Ports • Specify the management port • Dynamic Bandwidth Control (32 Kbps increments)
MIB-II (RFC 1213) <i>(see note 1)</i>	<ul style="list-style-type: none"> • Packets Transmitted • Packets Received • Octets (bytes) Transmitted • Octets (bytes) Received • Plus All Standard MIB II Objects
Transmission Dot 3 (RFC1643) <i>(see note 1)</i>	<ul style="list-style-type: none"> • Alignment Errors • Single Collision Frames • Multiple Collision Frames • SQE Test Errors • Deferred Transmissions • Late Collisions • Excessive Collisions • Carrier Sense Errors • Frame Too Long • Internal MAC Transmit Errors • Internal MAC Receive Errors

Hardware Configuration <i>(see note 3)</i>
<ul style="list-style-type: none"> • Set port for SNMP management traffic • Set mode of operation

Notes:

1. Parameter can be monitored only via software
2. Parameter can be configured and monitored via software
3. Parameter must be set via hardware dipswitch

1310 / 1550 nm FiberLinX Modules



Ordering Information

The Prisma FiberLinX modules listed below install in any Prisma MediaCenter or Prisma MediaCPE chassis.

Prisma FiberLinX TX/FX Modules	Part Number
Prisma FiberLinX/, TX/FX-MM1300-ST [2km]	4004988
Prisma FiberLinX, TX/FX-MM1300-SC [2km]	4004989
Prisma FiberLinX, TX/FX-SM1310/PLUS-ST [40km]	4004990
Prisma FiberLinX, TX/FX-SM1310/PLUS-SC [40km]	4004991
Prisma FiberLinX, TX/FX-SM1310/LONG-ST [80km]	4004992
Prisma FiberLinX, TX/FX-SM1310/LONG-SC [80km]	4004993
Prisma FiberLinX, TX/FX-SM1550/LONG-SC [80km]	4004994
Prisma FiberLinX TX/SSFX Modules (single-strand fiber)	
Prisma FiberLinX, TX/SSFX-SM1310-SC [20km]	4004995
Prisma FiberLinX, TX/SSFX-SM1550-SC [20km]	4004996
Prisma FiberLinX, TX/SSFX-SM1310/PLUS-SC [40km]	4004997
Prisma FiberLinX, TX/SSFX-SM1550/PLUS-SC [40km]	4004998

For Prisma MediaCenter and Prisma MediaCPE Chassis specifications and ordering information, see data sheet #7001716 "Prisma Optical Media Converters – Prisma MediaCenter Chassis."



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