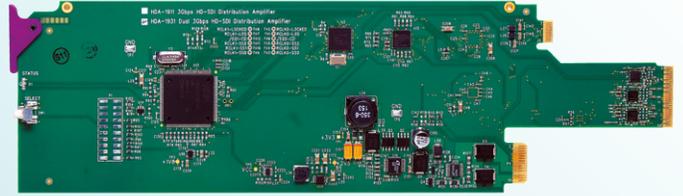


FXE-1501

Fiber Ethernet Transceiver



Space-saving, modular platform for advanced signal processing.

The FXE-1501 from Grass Valley® provides distribution of Ethernet signals using optical fiber. It incorporates a bidirectional 10/100/1000 Base-T Ethernet to 1000 Base SX/LX gigabit fiber converter and transceiver.

The Ethernet UTP port incorporates auto speed negotiation, auto-crossover for MDI/MDI-X, and full or half duplex. Speed and activity indicators are provided for this port on the rear panel. The SFP optical interface supports a loop back test, and lost link forwarding (LLF). Link activity and LLF status indicators are provided for this port on the rear panel.

Housed in a Densité® frame and easily controllable via the GV Orbit® or iControl™ software or the frame controller menu, the FXE-1501 occupies only one slot.

Key Features

- 10/100/1000 Base-T Ethernet to fiber
- Fiber interface on SFP module for maximum flexibility
- Support loop back test for the optical SFP interface
- Supports lost link forwarding (LLF)
- Auto-negotiation for 10/100/1000 Base-T on the UTP port
- Auto-crossover for MDI/MDIX on the UTP port
- Full or half duplex on the UTP port
- Speed and link activity LEDs on the rear connector panel for the UTP port
- Link activity status LED on the rear panel for the optical interface
- Single slot in a Densité frame

Specifications

UTP Port

Connector: RJ45

Compliant to: 10 Base-T/100 Base-Tx/1000 Base-T with IEEE 802.3, IEEE 802.3u and IEEE 802.3x, speed auto sensing and auto MDI/MDI-X

SFP Port

Connector: SFP-compliant

Compliant to: IEEE 802.3z, 1000 Base-LX/SX

Electrical

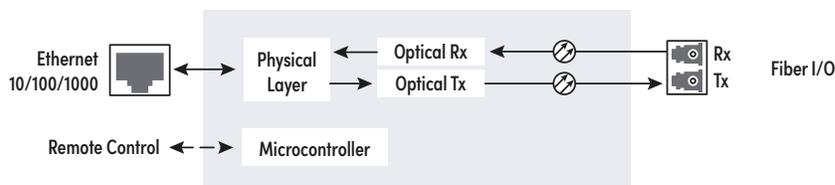
Power: 5W

Rx Optical Characteristics

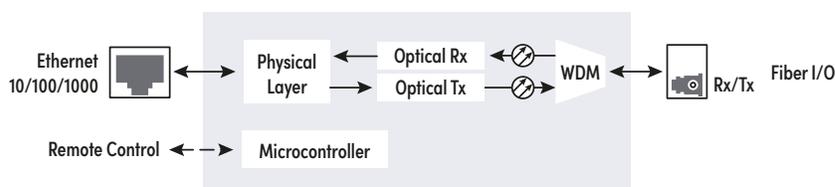
Transmitter type	Receiver sensitivity
S13	-19 dBm
W13 / W15	-20 dBm

Tx Optical Characteristics

Transmitter type	Transmit power	Wavelength	Laser type
S13	-9.5 to -3 dBm	Single-mode, 1310 nm	Fabry-Perot
W13 (WDM)	-9 to -3 dBm	Single-mode, 1310 nm	Fabry-Perot
W15 (WDM)	-9 to -3 dBm	Single-mode, 1550 nm	DFB (distributed feedback)



FXE-1501 Functional Block Diagram with standard SFP cartridge



FXE-1501 Functional Block Diagram with WDM SFP cartridge



FXE-1501-SRP

Ordering

Densité 2 Frame

FXE-1501

Fiber Ethernet transceiver*

FXE-1501-SRP

Single rear connector panel

Densité 3 Frame

FXE-1501-3RU

Fiber Ethernet transceiver*

FXE-1501-SRP-3RU

Single rear connector panel

*Note: One SFP cartridge must be ordered for each FXE-1501.

SFP Cartridges

SFP-ETH-10-S13-LC

Ethernet 10 km single-mode SFP cartridge / 1310 nm with LC/PC connector

SFP-ETH-RT-M85-LC

Ethernet 550m multimode cartridge / 850 nm with LC/PC connector

SFP WDM Cartridge Series

SFP-ETH-10-RT-W13-LC

Optical Ethernet WDM cartridge, 1310 nm, LC/PC connector

SFP-ETH-10-RT-W15-LC

Optical Ethernet WDM cartridge, 1550 nm, LC/PC connector

Remote Control

GV Orbit, iControl, iControl Solo

This product may be protected by one or more patents. For further information, please visit: www.grassvalley.com/patents

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