



4 Ch SD/HD 3G-SDI with Gigabit Ethernet Over Single Fiber - Rack Mountable

4-channel 3G-SDI and bi-directional Gigabit Ethernet transmitter/receiver kit over one single-mode fiber.



Transmitter - original product image



Receiver - original product image

Model Number

F-4SDI-3G-GET-TXRX-RM

Manufacturer: Thor Fiber

Primary Purpose: Thor Fiber F-4SDI-3G-GET-TXRX-RM sends four unique 3G-SDI video signals and bi-directional Gigabit Ethernet over a single fiber link. It is designed for real-time live broadcast, long-distance video transport, LAN extension, and rack-mount production workflows.

Key Specifications

Spec Category	Extracted Value
Model Number	F-4SDI-3G-GET-TXRX-RM
Video Channels	4 channels of SD/HD/3G-SDI video
Ethernet	RJ45 port supports 10/100/1000 Mbps Gigabit Ethernet interface - unmanaged pass-through
Fiber Link	Single Mode ONLY; single optical fiber for video and Ethernet
Distance Options	20, 40, 80, and 120km versions, model dependent
Wavelength Options	1310nm CWDM band: 1271/1291/1311/1331/1351/1371/1411/1431nm; 1550nm CWDM band: 1471/1491/1511/1531/1551/1571/1591/1611nm
Optical Data Rate / Source	Up to 4.25 Gbps, model specific; DFB Laser Module - CWDM
Optical Budget / Connector	15 dB standard; 30 dB long range; ST/PC standard
SDI Input / Electrical	Any Serial Digital Signal up to 3.0 Gbps; 1.00 V peak-to-peak; 75 Ohm BNC
Mechanical / Power	480mm x 225mm x 88mm; 8-15 lb depending on configuration; 100-240 VAC auto-switching PSU
Environment	Operating: -10C to +55C; Storage: -30C to +70C; Humidity: 0 to 95%, non-condensing

Core Features

- 4-Channel 3G-SDI + Ethernet: Transports four unique 3G-SDI video signals plus bi-directional Gigabit Ethernet over one fiber strand.
- Transmitter and Receiver Kit: Complete Tx/Rx rackmount kit for end-to-end SDI video and Ethernet transport.
- Single Optical Fiber Design: Combines video and Ethernet on the same fiber link to reduce cabling and simplify installation.
- CWDM Compatibility: Works with standardized CWDM channels for integration with other CWDM-based systems.
- Embedded Audio and Ancillary Data: Passes SDI embedded audio and ancillary data together with the video signal.
- Input Equalization and Reclocking: Supports clean, stable SDI performance with input EQ and reclocking.
- Real-Time LED Indicators: LED indicators show input signal detect, optical link, and Ethernet connectivity.
- Ethernet Pass-Through: Ethernet port works as an unmanaged pass-through transceiver and does not require IP configuration.

Target Applications

- Live broadcast video transport
- Production and post-production workflows
- Remote camera feeds with Ethernet extension
- Sports and live event venues
- Control room and rack-to-rack SDI extension
- Education, government, and institutional video systems
- Long-distance SDI transport over single-mode fiber
- LAN extension for computers, routers, or IP-enabled devices

Additional Product Information

Item	Extracted Value
Supported Cable Type	Single Mode ONLY
Transmission Format	4 channels SD/HD/3G-SDI + Gigabit Ethernet over one fiber
Rack Format	19 inch rack mountable chassis
Power Supply	100-240 VAC auto-switching PSU
Warranty	2 Yrs

Application Drawings

