

Data Sheet : F-8SDI-3G-TX/RX-RM



8 Ch SD/HD 3G-SDI Over Single Fiber CWDM Uncompressed Rack-Mountable

Transport of 8 Ch 3G-SDI Over Fiber F-8SDI-3G-TXRX-RM

Thor Fiber uncompressed 3G-CWDM part number **F-8SDI-3G-TxRx-RM** come in a kit (Tx & Rx) and are standard configuration Fiber Optic Transmitter and Receivers for Serial Digital signals up to 3G-SDI running at 3.0 Gbps. This system can be ordered with any standard CWDM optics package, and internal passives are available by request. This is a 8 Channel system based on a standard 40km platform. No configuration or management is needed, as the system automatically adjusts to any input signal type regardless of bit rate or protocol. Easy to read LED indicators for Input Signal Detect and optical link are present for all channels. Units come standard with ST/PC fiber connectors and a 1RU 19" rackmount form factor to keep your rack clean. Simplified easy to use plug and play units mean that anyone can deploy these in no time. Commercial grade intricate parts means these will work for years without hassle, backed by Thor Fiber's 5 year warranty and free tech support means a stress free guarantee.

Thor part number F-xSDI-Tx/Rx designates a fiber optic transmitter or receiver used to transport serialized digital signals up to 3.0 Gbps. Any channel configuration up to 16 channels per fiber can be designated by value "x". Units can be configured to transport any number of SDI channels in either

direction up to a total of 16 per fiber. For even higher densities, DWDM systems are available by request. Thor uses high quality DFB lasers for maximum reliability and distance, with off the shelf models functioning up to 50km when used with single mode fiber. F-SDI systems will transport any digital signal from 1 Mbps to 3.0 Gbps independent of protocol or standard. These systems can be used for anything from 3G-SDI (SMPTE 424M) to multi rate DVB-ASI down to single program at low bit rates. F-SDI units incorporate industry standard internal CWDM modules for compatibility with similar systems from other manufacturers, such as Python™ systems. This standardization allows Thor F-SDI equipment to be used in conjunction with other commercial off the shelf transmitters or receivers from other vendors, including Python™ series equipment. All outputs are automatically re clocked to eliminate problems with jitter and to allow for long cable runs out of the receiver. Applications range from live broadcast and Electronic News Gathering to government and scientific research applications. Contact a Thor Sales Representative today for more information on system design and equipment compatibility.

Features:

- Compatible with any Serial Digital Signal up to 3.0 Gbps
- Available with internal optics for use with a single optical fiber
- Standardized channels for both CWDM bands for compatibility with Python™ systems
- Passes SDI embedded audio and all ancillary data
- Input equalization and reclocking for SDI video on buffered outputs
- Available in any custom configuration for Bi-Directional Transport up to 16 total channels
- Real-time status LED indicators for troubleshooting and monitoring
- DWDM systems available by request for higher density systems

Model Selection:

F-8SDI-3G-TX/RX-RM 8x SD, HD ,3G SDI over single fiber Transmitter and Receiver kit supporting 20Km

F-8SDI-3G-TX/RX-RM-40 8x SD, HD ,3G SDI over single fiber Transmitter and Receiver kit supporting 40Km

F-8SDI-3G-TX/RX-RM-80 8x SD, HD ,3G SDI over single fiber Transmitter and Receiver kit supporting 80Km

F-8SDI-3G-TX/RX-RM-120 8x SD, HD ,3G SDI over single fiber Transmitter and Receiver kit supporting 120Km

Other available configurations:

7x 3G SDI in one direction and 1x 3G SDI in the reverse direction - F-SDI-3G-7TX1RX-RM + F-SDI-3G-1TX7RX-RM

6x 3G SDI in one direction and 2x 3G SDI in the reverse direction - F-SDI-3G-6TX2RX-RM + F-SDI-3G-2TX6RX-RM

5x 3G SDI in one direction and 3x 3G SDI in the reverse direction - F-SDI-3G-5TX3RX-RM + F-SDI-3G-3TX5RX-RM

4x 3G SDI in one direction - 4x 3G SDI in reverse direction - [F-4SDI-B-3G-Tx/Rx-RM](#)

Specifications:

Optical Characteristics	
<ul style="list-style-type: none"> Wavelength 	1310 nm CWDM Band 1271nm, 1291nm, 1311nm, 1331nm 1351nm, 1371nm, 1411nm, 1431nm 1550 nm CWDM Band 1471nm, 1491nm, 1511nm, 1531nm 1551nm, 1571nm, 1591nm, 1611nm *Other Wavelengths Available By Request *DWDM up to 160 Ch/Fiber By Request
<ul style="list-style-type: none"> Fiber Cable 	Single Mode
<ul style="list-style-type: none"> Optical Data Rate 	Up to 4.25 Gbps (Model Specific)
<ul style="list-style-type: none"> Optical Source 	DFB Laser Module - CWDM
<ul style="list-style-type: none"> Optical Budget 	25 dB - Standard 35 dB - Long Range
<ul style="list-style-type: none"> Fiber Connectors 	ST/PC - Standard
Electrical Characteristics	
<ul style="list-style-type: none"> Input 	Any Serial Digital Signal up to 3.0 Gbps
<ul style="list-style-type: none"> Input Level 	1.00 V Peak to Peak
<ul style="list-style-type: none"> I/O Impedance 	75 Ohm
<ul style="list-style-type: none"> Electrical Connectors 	BNC - 75 Ohm
<ul style="list-style-type: none"> Mechanical/Environmental 	
<ul style="list-style-type: none"> Dimensions (L x W x H) 	480mm x 225mm x 88mm
<ul style="list-style-type: none"> Weight 	8-15lb - Depending On Configuration
<ul style="list-style-type: none"> Temperature Range 	<ul style="list-style-type: none"> Operating: -10C to + 55C Storage: -30C to + 70C
<ul style="list-style-type: none"> Humidity Range 	0 to 95%, non-condensing
<ul style="list-style-type: none"> Power 	100 - 240 VAC Auto Switching PSU 10 - 30 Watt Depending On Configuration
*All Specifications Subject to Change Without Notice	

DRAWING:

