

SCORPION Compatible SFPs

1G/3G/12G Electrical and Optical SFPs

The Evertz SCORPION compatible SFPs are used in the SCORPION-X18, -4 and -2 Transport platform. Depending on the model, these SFP's have electrical or optical interfaces supporting up to 12G video.

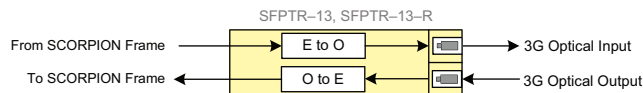
The optical SFP's provide dark fiber transport of Video (12G/4K/3G/HD/SD-SDI/DVB-ASI, HDMI), Audio (Analog Audio, AES Audio, MADI, Intercom), Ethernet (10/100/1000/10G Ethernet) and Data (USB, Serial Data RS-232/422/485). The electrical SFP's provide connections of signals to and from the SCORPION platform.



Optical SFP's

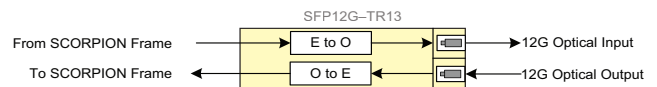
SFPTR-13, SFPTR-13-R

3Gig Optical reclocked or non-reclocked transceiver with standard 1310nm laser.



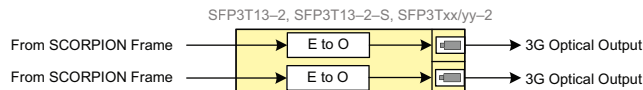
SFP12G-TR13

12Gig Optical reclocked transceiver with standard 1310nm laser.



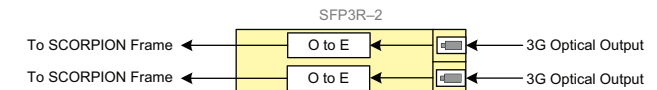
SFP3T13-2, SFP3T13-2-S, SFP3Txx/yy-2

Dual 3Gig Optical non-reclocked transmitter with standard 1310nm, low power 1310nm or CWDM laser.



SFP3R-2

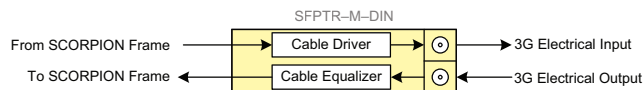
Dual 3Gig Optical non-reclocked receiver with standard sensitivity receiver.



Electrical SFP's

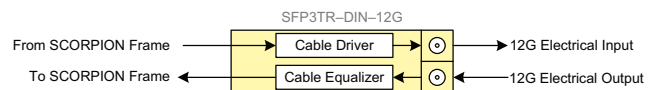
SFPTR-M-DIN

3Gig Electrical non-reclocked transceiver with DIN 1.0/2.3 connectors.



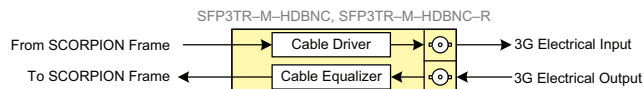
SFP3TR-DIN-12G

12Gig Electrical reclocked transceiver with DIN 1.0/2.3 connectors.



SFP3TR-M-HDBNC, SFP3TR-M-HDBNC-R

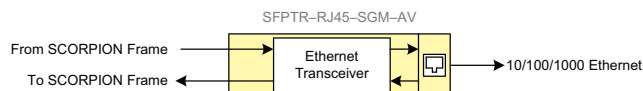
3Gig Electrical reclocked or non-reclocked transceiver with HD-BNC connectors.



Ethernet SFP's

SFPTR-RJ45-SGM-AV

Single 10/100/1Gbps RJ-45 SFP Module.



Specifications

<p>Optical Outputs: Number of signals: Up to 2x per SFP Connector: LC/UPC Fiber: Single mode Optical Power: 1310nm (3G SFP): -2dBm ±1dBm 1310nm (12G SFP): -2dBm ±1dBm -S (Short Haul 1310nm 3G SFP): -7dBm ±1dBm CWDM (3G SFP): +4dBm ±1dBm Wavelength: Standard (3G & 12G sfp): 1310nm CWDM (3G SFP): 1270-1610nm ITU-T G.694.2 compliant</p> <p>Optical Input: Number of signals: Up to 2 per SFP Connector: LC/UPC Fiber: Single mode Operating Wavelength: 1270-1610nm Max Input Power: Standard (3G & 12G SFP): -1dBm Optical Sensitivity: Standard (3G SFP): -21dBm at 2.97Gbps Pathological Level A -23dBm at 2.97Gbps Color Bars Standard (12G SFP): -16dBm at 12Gbps</p>	<p>Electrical Inputs: Reclocked Standards: SMPTE ST 2081, SMPTE ST 2081 (12G-SDI), SMPTE ST 424M (3Gb/s), SMPTE ST 292M (1.5Gb/s), SMPTE ST 259M (270Mb/s), DVB-ASI Connector: DIN 1.0/2.3 HD-BNC Impedance: 75Ω (nominal) Equalization: Automatic to 80m @3Gb/s, 100m @1.5Gb/s, 250m @270Mb/s (with Belden 1694A or equivalent cable) Return Loss: > 15dB up to 1.5GHz, > 10dB up to 3GHz, > 7dB up to 6GHz, > 4dB up to 12GHz</p> <p>Electrical Outputs: Connector: DIN 1.0/2.3 HD-BNC Impedance: 75Ω (nominal) Signal Level: 800mV (nominal) DC Offset: 0V ±0.5V Rise and Fall Time (Reclocked SFPs only): 12G: < 45ps HD/3G: < 135ps SD: < 900ps</p>	<p>Overshoot (Reclocked SFPs only): < 10% of amplitude Alignment Jitter (Reclocked SFPs only): < 0.2UI to 1.485Gb/s < 0.3UI to 2.97Gb/s < 0.3UI up to 12Gb/s</p> <p>Ethernet Input/Output Standard: IEEE 802.3 (10 BaseT), IEEE 802.3u (100 BaseTX), IEEE 802.3ab (1000BaseTX) Number of Ports: 1 Connector: RJ-45 Cable requirements: 10 BaseT: UTP category 3, 4, or 5 cable up to 328ft/100m 100 Base Tx: UTP category 5 cable up to 328ft/100m 1000Base Tx: UTP category 5 cable up to 164/50m</p> <p>Physical: SFP Form-factor</p>
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Ordering Information

SFPTR-13	SFP Optical Non-reclocked Transceiver, 3Gb/s, 1310nm, SMF
SFPTR-13-R	SFP Optical Reclocked Transceiver, 3Gb/s, 1310nm, SMF
SFP12G-TR13	SFP Optical Reclocked Transceiver, 12Gb/s, 1310nm, SMF
SFP3TR-M-DIN	SFP Electrical Non-reclocked Transceiver, 12Gb/s, DIN 1.0/2.3
SFP3TR-DIN-12G	SFP Electrical Transceiver, 12Gb/s, DIN 1.0/2.3
SFPTR-M-HDBNC	SFP Electrical Non-reclocked Transceiver, 12Gb/s, HD-BNC
SFPTR-M-HDBNC-R	SFP Electrical Reclocked Transceiver, 12Gb/s, HD-BNC
SFP3T13-2	SFP Dual Optical Non-reclocked Transmitter, 3Gb/s, 1310nm, SMF
SFP3T13-2-S	SFP Dual Optical Non-reclocked Transmitter, 3Gb/s, short haul 1310nm, SMF
SFP3Tx/yy-2	SFP Dual Optical Non-reclocked Transmitter, 3Gb/s, CWDM, SMF
SFP3R-2	SFP Dual Optical Non-reclocked Receiver, 3Gb/s, standard sensitivity, SMF
SFPTR-RJ45-SGM-AV	Single 10/100/1Gbps RJ-45 SFP Module

Enclosures:

SCORPION-X18	Media Processing Platform Multi-Frame with onboard 80x80 crosspoint (holds 18 modules)
SCORPION-X18-48VDC	Media Processing Platform Multi-Frame with onboard 80x80 crosspoint (holds 18 modules)
SCORPION-4	Media Processing Platform — Standalone Frame (holds 4 modules)
SCORPION-2	Media Processing Platform — Miniature Frame (holds 2 modules)