

# 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.

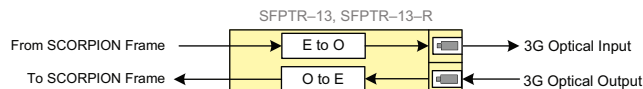
The optical SFP's provide dark fiber transport of Video (12G/4K/3G/HD/SD-SDI/DVB-ASI, HDMI), Audio (Analog Audio, AES Audio, MADI, Intercom), Ethernet (10/100/1000/10G Ethernet) and Data (USB, Serial Data RS-232/422/485). The electrical SFP's provide connections of signals to and from the SCORPION platform.



### ► Optical SFP's

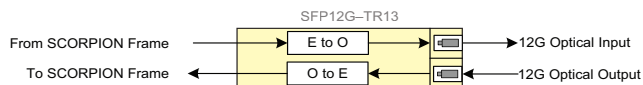
#### SFPTR-13, SFPTR-13-R

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



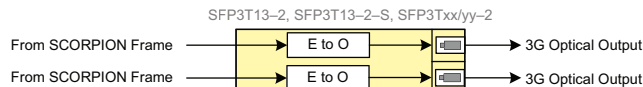
#### SFP12G-TR13

12Gig Optical reclocked transceiver with standard 1310nm laser.



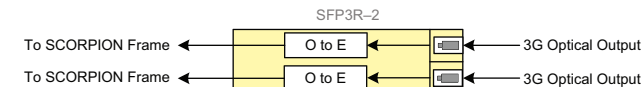
#### SFP3T13-2, SFP3T13-2-S, SFP3Txx/yy-2

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



#### SFP3R-2

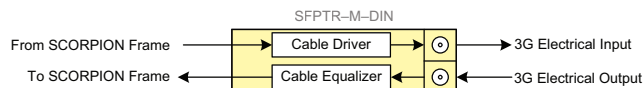
Dual 3Gig Optical non-reclocked receiver with standard sensitivity receiver.



### ► Electrical SFP's

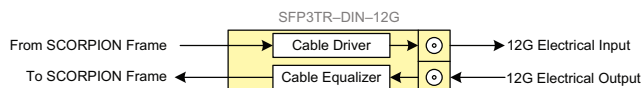
#### SFPTR-M-DIN

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



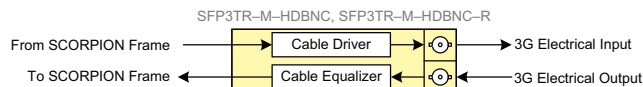
#### SFP3TR-DIN-12G

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



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

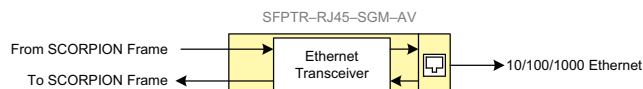
3Gig Electrical reclocked or non-reclocked transceiver with HD-BNC connectors.



### ► Ethernet SFP's

#### SFPTR-RJ45-SGM-AV

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



### Specifications

<b>Optical Outputs:</b> 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		<b>Electrical Inputs:</b> 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		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	
<b>Optical Input:</b> 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		<b>Electrical Outputs:</b> 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		<b>Ethernet Input/Output</b> 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	
				<b>Physical:</b> SFP Form–factor	

### Ordering Information

<b>SFPTR–13</b> SFP Optical Non–reclocked Transceiver, 3Gb/s, 1310nm, SMF <b>SFPTR–13–R</b> SFP Optical Reclocked Transceiver, 3Gb/s, 1310nm, SMF <b>SFP12G–TR13</b> SFP Optical Reclocked Transceiver, 12Gb/s, 1310nm, SMF <b>SFP3TR–M–DIN</b> SFP Electrical Non–reclocked Transceiver, 12Gb/s, DIN 1.0/2.3 <b>SFP3TR–DIN–12G</b> SFP Electrical Transceiver, 12Gb/s, DIN 1.0/2.3 <b>SFPTR–M–HDBNC</b> SFP Electrical Non–reclocked Transceiver, 12Gb/s, HD–BNC <b>SFPTR–M–HDBNC–R</b> SFP Electrical Reclocked Transceiver, 12Gb/s, HD–BNC <b>SFP3T13–2</b> SFP Dual Optical Non–reclocked Transmitter, 3Gb/s, 1310nm, SMF <b>SFP3T13–2–S</b> SFP Dual Optical Non–reclocked Transmitter, 3Gb/s, short haul 1310nm, SMF <b>SFP3Tx/yy–2</b> SFP Dual Optical Non–reclocked Transmitter, 3Gb/s, CWDM, SMF <b>SFP3R–2</b> SFP Dual Optical Non–reclocked Receiver, 3Gb/s, standard sensitivity, SMF <b>SFPTR–RJ45–SGM–AV</b> Single 10/100/1Gbps RJ–45 SFP Module		<b>Enclosures:</b> <b>SCORPION–X18</b> Media Processing Platform Multi–Frame with onboard 80x80 crosspoint (holds 18 modules) <b>SCORPION–X18–48VDC</b> Media Processing Platform Multi–Frame with onboard 80x80 crosspoint (holds 18 modules) <b>SCORPION–4</b> Media Processing Platform — Standalone Frame (holds 4 modules) <b>SCORPION–2</b> Media Processing Platform — Miniature Frame (holds 2 modules)	
--	--	---	--