

SCORPION-X18

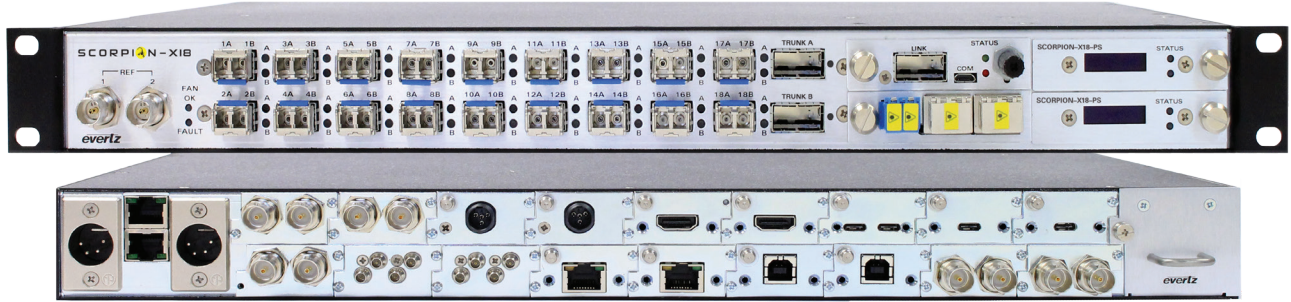
Smart Media Processing Platform with Onboard 12G Crosspoint, Optional IP Fabric and Processing FPGAs

The SCORPION-X18 Media Processing Platform is a high density signal conversion, video processing, routing, aggregation and transport platform capable of simultaneously transporting video, audio and data over traditional dark fiber and/or managed IP networks.

Using SCORPION Mini I/O Modules the SCORPION-X18 is highly flexible and can accommodate 12G/6G/3G/HD/SD-SDI, DVB-ASI, 10/100/1000MbE, 10GbE, analog/AES/MADI audio, HDMI, Intercom, serial data and Telco

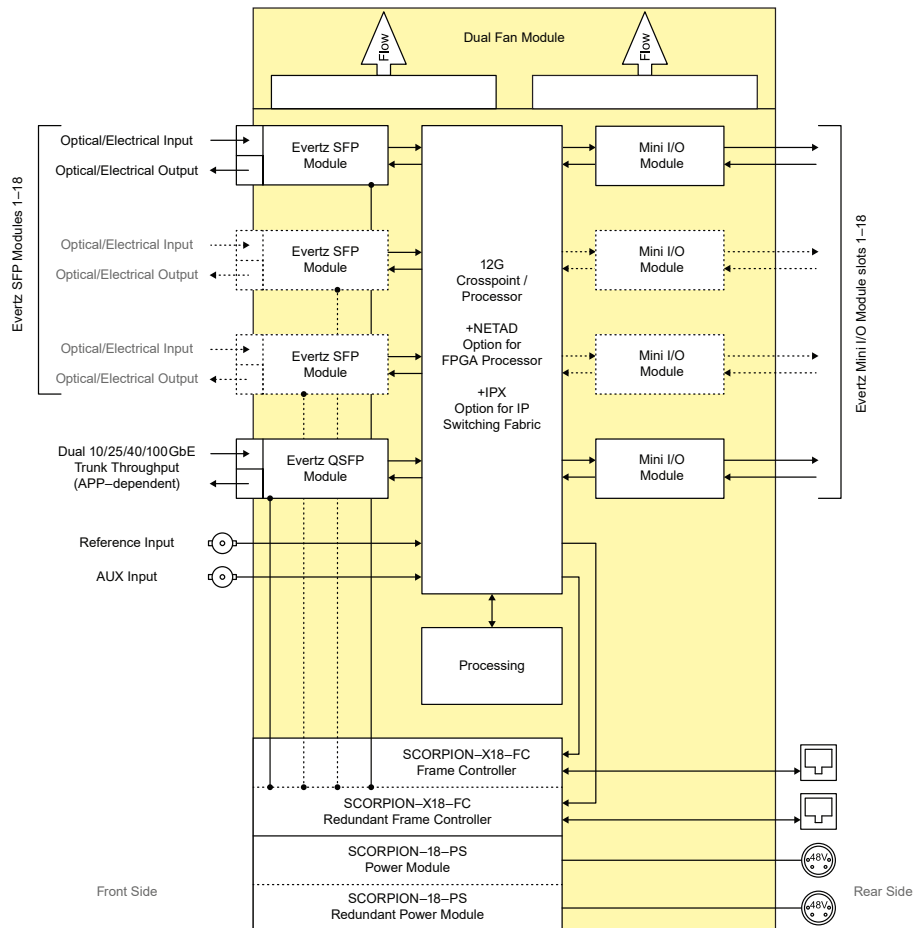
interfaces. An onboard 12G crosspoint allows uncompressed routing internal to the chassis.

Up to 18x front-facing fiber or electrical SFPs allow for signal conversion, or additional signal I/O to and from the chassis. Optional media conversion to IP is available through a network adapter module. When multiple frames are combined, the transport platform becomes ultra-scalable, enabling the sharing of content across IP or fiber networks.



Features & Benefits

- High density fully modular 1RU form factor
- All-in-one platform handles all signal conversion, routing and transport needs
- Up to 18x single or 8x dual slots for populating mini I/O modules
- 12G-SDI cross-point to facilitate maximum flexibility of all I/O
- Dual 10/25/40/100 GbE throughput (QSFP trunk ports)
- +NETAD option supporting deployment of software services/APPS
- Simultaneous IP and dark fiber transport
- MSA compliant SFP interfaces
- Diverse signal types such as 12G/6G/3G/HD/SD-SDI, DVB-ASI, 10/100/1000/10G Ethernet, Analog/AES/MADI audio, HDMI, Intercom, serial data and Telco interfaces
- Main and redundant power modules and external power supply
- Integrated with Evertz' MAGNUM, VistaLINK® PRO, inSITE and VUE, along with external APIs



The Complete Solution Provider



Specifications

System:	Impedance:	Dependant on SCORPION	Max. Power Consumption:
Density:	18x front-facing SFPs 18x rear-facing SCORPION mini I/O module slots	mini I/O module (see appropriate specifications)	280W
Impedance:	Dual 10/25/40/100GbE trunk ports Dependant on SCORPION mini I/O module (see appropriate specifications)	Reference: Number of Inputs: 1 looping Connector: BNC IEC 61169.8 Annex A Reference Inputs: Analog 625 or 525, Tri-Level HD Impedance: 75Ω	Connectors: 4-pin male XLR Status Indicators: SCORPION-X18-PS status LEDs (each per power supply tray)
Connector:	Dependant on SCORPION mini I/O module (see appropriate specifications)	Physical: Dimensions: 1.8"H x 19"W x 13.875"D Module Capacity: 18x Evertz SFP modules 18x SCORPION mini I/O modules	Compliance: Safety: CSA listed, complies with EU safety directive EMC: Complies with FCC part 15, Class A Complies with EU EMC directives
Communication and Control:	Communication and Control:	Operating Temp.: 0–50°C	SCORPION-X18-PSX External Power Supply Brick:
Ethernet:	SNMP over IEEE 802.3/U (10/100/1000 BaseTx) RJ-45 connector	Electrical: Power Supply Configuration: Dual external supplies (primary/secondary) DC input 48V DC (external power supplies requires 110–220V AC, 50/60Hz)	AC Mains Input: Auto-ranging, 100–240V AC, 0/60Hz
Control:	SNMP, web access and control panels		Number of Outputs: 1 Output Voltage: 48V DC Output Connector: 4-pin XLR Max. Power Dissipation: 280W Status Indicators: Green OK LED
Electrical Inputs/Outputs:			
Connector:	Dependant on SCORPION mini I/O module (see appropriate specifications)		

Ordering Information

SCORPION-X18	Media Processing Platform Multiframe with onboard 80x80 12G crosspoint — frame controller not included
SCORPION-X18-NPSX	Media Processing Platform Multiframe with onboard 80x80 12G crosspoint — frame controller and power supply not included

Accessories:

SCORPION-X18-FC	Frame controller for SCORPION-X18 (not included with chassis)
SCORPION-18-PSX	External power supply for SCORPION-X18 (order 1 additionally for redundant operation)
SCORPION-18-PS	Internal power module for SCORPION-X18 (order 1 additionally for redundant operation)
SCORPION-18-PS3	SCORPION-X18 1RU power supply tray for 3x SCORPION-X18 frames
SCORPION-18-PS6	SCORPION-X18 1RU power supply tray for 6x SCORPION-X18 frames
SCORPION-18-FAN	Replacement fan module for SCORPION-X18
WA-XLR4-1FT	XLR power cable, connects SCORPION-X18 to PS6 power tray, 1 ft
WA-XLR4-3FT	XLR power cable, connects SCORPION-X18 to PS6 power tray, 3 ft
WA-XLR4-6FT	XLR power cable, connects SCORPION-X18 to PS6 power tray, 6 ft

Ordering Options:

SCORPION-X18-CWDM-2-M18	18-channel CWDM multiplexer (occupies single FC slot)
SCORPION-X18-CWDM-2-D18	18-channel CWDM de-multiplexer (occupies single FC slot)

+NETAD	Optional network adapter module (required for trunk connectivity/to run applications)
+IPX	Optional IP switch fabric with 16x 1/10GbE interfaces (SFP/MIO) and 2x 10/25/40/100GbE interfaces (QSFP)

Software Applications (deployed on +NETAD):

SCORPION-X18-APP-IPG12G	SCORPION-X18 APP supporting 8x8 12G-SDI over 8x 25G trunk interfaces with SMPTE ST 2110 support
SCORPION-X18-APP-IPG3G-50G	SCORPION-X18 APP supporting 16x16 3G-SDI over 4x 25G trunk interfaces with SMPTE ST 2110 support
SCORPION-X18-APP-IPG3G-40G	SCORPION-X18 APP supporting 12x12 3G-SDI over 8x 10G trunk interfaces with SMPTE ST 2110 support
SCORPION-X18-APP-IPG3G-25G	SCORPION-X18 APP supporting 8x8 3G-SDI over 2x 25G trunk interfaces with SMPTE ST 2110 support
SCORPION-X18-APP-ETH	SCORPION-X18 APP supporting 16x 1GE and 8x 10GE over 8x 25G trunk interfaces
SCORPION-X18-APP-J2K-8E2D	SCORPION-X18 APP supporting 8x encodes and 2x decodes of JPEG2000 over 2x 25G trunk interfaces (JPEG2000 licenses sold separately)
SCORPION-X18-APP-J2K-12E	SCORPION-X18 APP supporting 12x encodes from SDI to JPEG2000 (JPEG2000 licenses sold separately)

Available Mini I/O Modules * See SCORPION Mini I/O Modules specification document for more details.

MIO-VB-2-12G	12G/6G/3G/HD/SD/ASI video access module	MIO-USB-B	USB-B HID interface
MIO-GE-RJ45-IP	1GbE Ethernet access module with onboard processing	MIO-HDMI-IN-3G	HDMI input access module
MIO-AES-IP	Dual AES67 encapsulator and de-encapsulator	MIO-HDMI-OUT-3G	HDMI output access module
MIO-AES-IN4-IP	Quad AES67 encapsulator	MIO-HDMI-IN-4K	4K SDI or HDMI input module, dual slot
MIO-AES-OUT4-IP	Quad AES67 de-encapsulator	MIO-HDMI-OUT-4K	4K SDI or HDMI output module, dual slot
MIO-AES-D4	AES audio de-embedder module	MIO-HDMI-IN1-4K-IP	HDMI input module with onboard processing, dual slot
MIO-MADI-2-IP	Single MADI encapsulator and de-encapsulator	MIO-HDMI-OUT1-4K-IP	HDMI output module with onboard processing, dual slot
MIO-DANTE-64	Dante® to TDM bridge module	MIO-HDMI-2-4K-IP	HDMI microservice module
MIO-IT-IP	Intercom transceiver module (2x analog audio in/out, 2x serial data, 4x GPIO), dual slot	MIO-BLADE-221	Microservice module
MIO-AVT	Analog video/Black Burst transmit module with loop out	MIO-DE4-3G	3G/HD/SD-SDI SCTE/data/LTC/GPI embedding module
MIO-AVR	Analog video/Black Burst receive module	MIO-DD4-3G	3G/HD/SD-SDI SCTE/data/LTC/GPI de-embedding module
MIO-USB-A	USB-A HID interface		

Recommended QSFP/SFP Modules * See SCORPION Compatible SFPs specification document for more details.

SFPTR-13	SFP optical non-relocked transceiver, 3Gb/s, 1310nm, SMF	SFP3Txx/yy-2	SFP dual optical non-relocked transmitter, 3Gb/s, CWDM, SMF
SFPTR-13-R	SFP optical relocked transceiver, 3Gb/s, 1310nm, SMF	SFP3R-2	SFP dual optical non-relocked receiver, 3Gb/s, standard sensitivity, SMF
SFP3TR-13-12G	SFP optical relocked transceiver, 12Gb/s, 1310nm, SMF	SFPTR-RJ45-SGM-AV	Single 10/100/1Gbps RJ-45 SFP module
SFP12G-T13-2	SFP optical relocked dual transmitter, 12Gb/s, 1310nm, SMF	QSFP-10G-TR13-G	QSFP, 40Gb/s, SMF
SFP12G-R-2	SFP optical relocked dual receiver, 12Gb/s, 1310nm, SMF	QSFP10G-MM-A	QSFP, 40Gb/s, MMF
SFPTR-M-HDBNC-R	SFP electrical relocked transceiver, 12Gb/s, HD-BNC	QSFP25G-SM-PSM4-LR-G-NFEC	QSFP, 25Gb/s, SMF
SFP3T13-2	SFP dual optical non-relocked transmitter, 3Gb/s, 1310nm, SMF	QSFP25G-MM-M	QSFP, 25Gb/s, MMF
SFP3T13-2-S	SFP dual optical non-relocked transmitter, 3Gb/s, short haul 1310nm, SMF		