

SCORPION-4

Media Processing Platform — Standalone Frame

The SCORPION-4 Media Processing Platform is a standalone, compact form factor, multi-service signal conversion, aggregation gateway capable of simultaneously transporting video, audio and data services over Ethernet and fiber networks. Using SCORPION Mini I/O Modules, the SCORPION-4 is highly flexible and can accommodate a multitude of signals including 4K SDI, Ethernet, MADI, AES, HDMI, intercom and serial data. The SCORPION-4 features encapsulation and de-encapsulation to IP over dual 10GbE or 25GbE trunk ports.

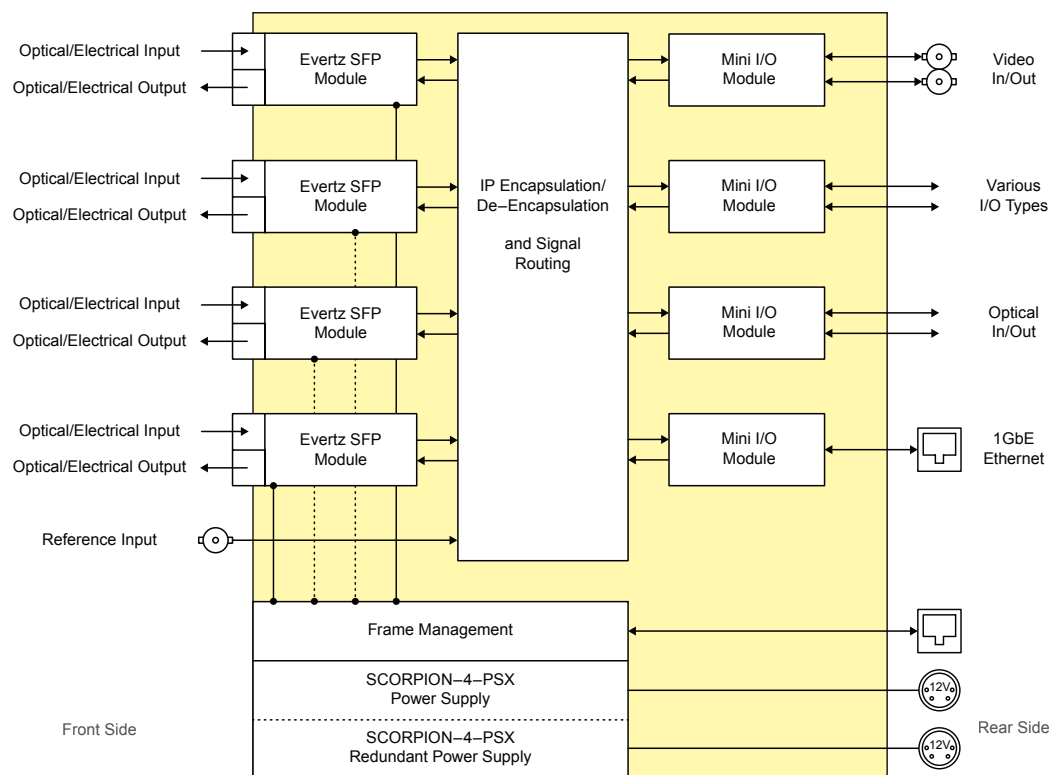
When combined with other compatible IP gateways including the 1RU SCORPION-X18, the SCORPION-4 becomes part of an integrated, scalable transport network, enabling the sharing of content from different sites using different transport media.

The SCORPION-4 possesses a small fanless form factor, and is designed to be operated in portable and/or low noise environments. SCORPION-4 is ideal for mobile and live sports production applications.



Features & Benefits

- High density and fully modular in a standalone form factor
- All-in-one platform to handle video, audio, data transport needs
- IP encapsulation/de-encapsulation supporting SMPTE ST 2022-6 and SMPTE ST 2110
- 10/25GbE IP network support
- Up to 4x single-slot or 2x dual-slot mini I/O modules fit the standalone frame
- Up to 4x SFP ports for Ethernet or fiber IP connectivity
- Supports MSA SFP transceivers
- Diverse signal types such as 12G/6G/3G/HD/ASI, Ethernet, serial data, HDMI, USB and Intercom (mini I/O module-dependent)
- Main and redundant power supplies
- Onboard signal integrity and link analysis
- Multiple control options including SNMP, web access, panels and MAGNUM
- Fanless operation with integrated heat sink for power dissipation



Specifications

System		Electrical Inputs/Outputs		Electrical	
Density:	4x SFP's	Connector:	Dependant on SCORPION mini I/O module (see appropriate specifications)	Power Supply Configuration:	Dual external supplies (primary/secondary)
Impedance:	Dependant on SCORPION mini I/O module (see appropriate specifications)	Impedance:	Dependant on SCORPION mini I/O module (see appropriate specifications)	Voltage:	DC input 12V DC (external power supplies require 110–220V AC, 50/60Hz)
Connector:	Dependant on SCORPION mini I/O module (see appropriate specifications)	Reference		Power Consumption:	25W empty, 132W fully loaded
Communication and Control		Number of Inputs:	1	Connectors:	12V DC, auto-ranging 100–240V AC 50/60Hz adapter included
Ethernet:	SNMP over IEEE 802.3/U (10/100/1000 BaseTx)	Connector:	BNC IEC 61169.8 Annex A	Status Indicators:	LED on unit
	RJ-45 connector	Reference Inputs:	Analog 625 or 525, Tri-Level HD	Compliance	
Control:	SNMP, web access, direct control and control panels	Impedance:	75Ω	Safety:	CSA listed, complies with EU Safety Directive
		Physical		EMC:	Complies with FCC part 15, Class A
		Dimensions:	2.5"H x 8.5"W x 6"D		Complies with EU EMC Directives
		Module Capacity:	4x Evertz SFP modules, 4x SCORPION mini I/O modules		
		Operating Temp.:	0–50 °C		

Ordering Information

SCORPION-4	Media Processing Platform — Standalone Frame
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Ordering Options:

- SCORPION-4-PSX** External power supply for SCORPION-4
SCORPION-4-RP1 Single SCORPION-4 19" rack mount kit (2RU)
SCORPION-4-RP2 Dual SCORPION-4 19" rack mount kit (2RU)

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-Z21	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-reclocked transceiver, 3Gb/s, 1310nm, SMF	SFP3Tx/yy-2	SFP dual optical non-reclocked transmitter, 3Gb/s, CWDM, SMF
SFPTR-13-R	SFP optical reclocked transceiver, 3Gb/s, 1310nm, SMF	SFP3R-2	SFP dual optical non-reclocked receiver, 3Gb/s, standard sensitivity, SMF
SFP3TR-13-12G	SFP optical reclocked transceiver, 12Gb/s, 1310nm, SMF	SFPTR-RJ45-SGM-AV	Single 10/100/1Gbps RJ-45 SFP module
SFP12G-T13-2	SFP optical reclocked dual transmitter, 12Gb/s, 1310nm, SMF	SFP25G-TR13	SFP, 25Gb/s, SMF
SFP12G-R-2	SFP optical reclocked dual receiver, 12Gb/s, 1310nm, SMF	SFP10G-TR13-A	SFP, 10Gb/s, SMF
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		

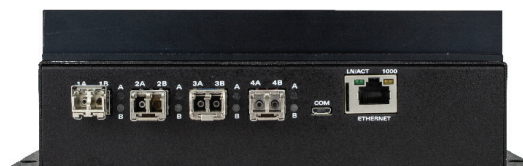
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The SCORPION-4 Media Processing Platform is a stand alone, compact form factor, multi-service signal conversion, aggregation gateway capable of simultaneously transporting video, audio and data services over 1GbE/10GbE and 25GbE Ethernet WAN networks. Using SCORPION Mini I/O Modules, the SCORPION-4 is highly flexible and can accommodate a multitude of signals including 12G single-link SDI, ethernet, MADI, AES, HDMI, intercom and serial data. The SCORPION-4 features encapsulation and de-encapsulation to IP over dual 10GbE or 25GbE trunk ports.

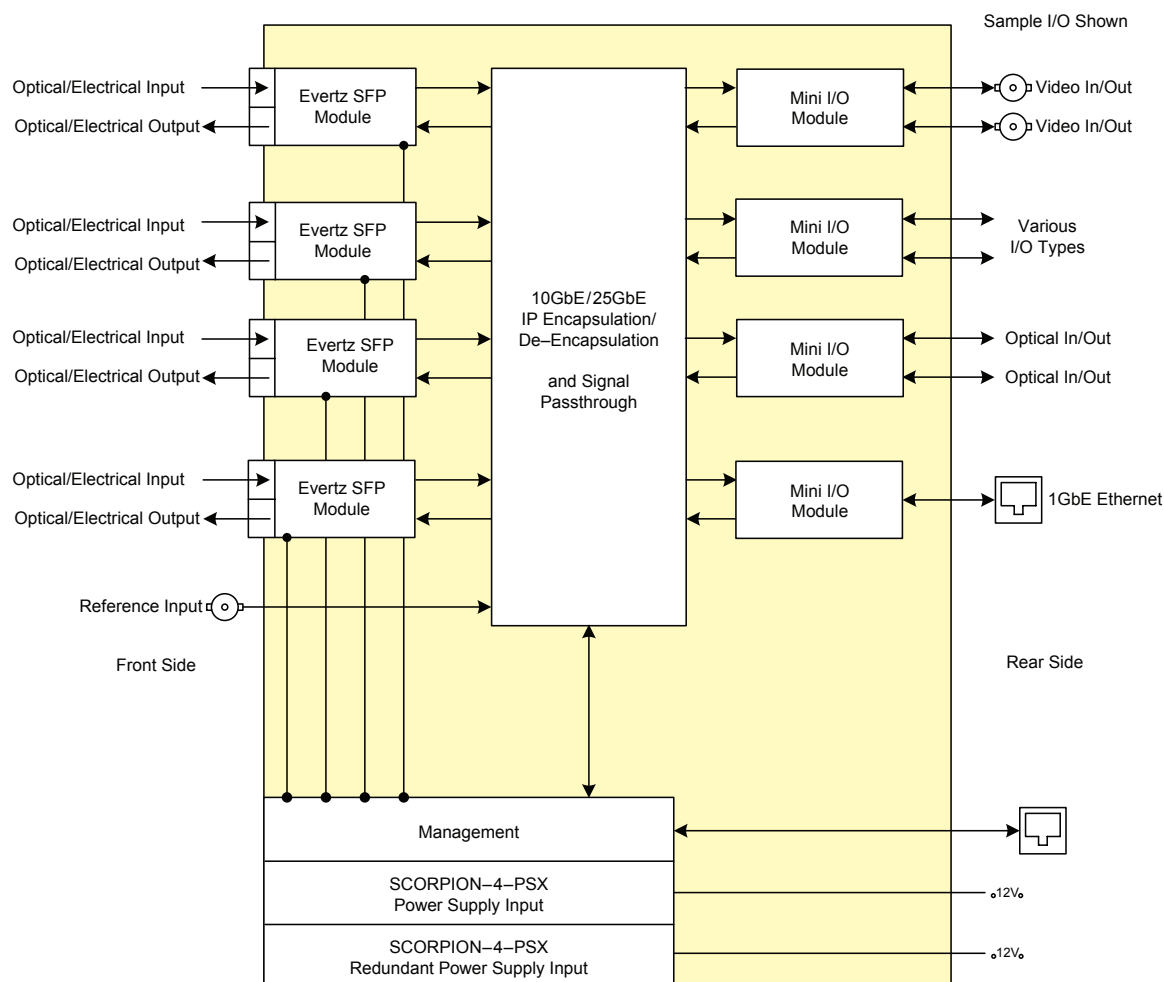
When combined with other compatible IP gateways including the 1RU SCORPION-X18, the SCORPION-4 becomes part of an integrated, scalable transport network with point-to-point, ring and hub-and-spoke configurations enabling the sharing of content from different sites using different transport media.

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Features & Benefits

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- All in one platform to handle video, audio, data transport needs
- IP Encapsulation/De-encapsulation supporting SMPTE ST 2022-6 and SMPTE ST 2110
- 1GbE/10GbE/25GbE WAN IP Network Support
- Up to 4x SCORPION Mini I/O Modules can fit into the standalone frame
- Up to 4x SFP Ports for Ethernet WAN IP Connectivity
- Supports MSA SFP transceivers
- Diverse signal Types such as 12G/6G/3G/HD/ASI, Ethernet, Serial Data, Intercom, HDMI, USB and Intercom
- Main and Redundant Power Supplies
- Onboard signal integrity and link analysis
- Multiple control options including SNMP, Web Access, Panels and MAGNUM
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► Specifications

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Control:	SNMP, Web Access, Direct Control and Control Panels	Impedance:	75Ω	Safety:	CSA Listed, complies with EU Safety Directive
		Physical		EMC:	Complies with FCC part 15, Class A Complies with EU EMC Directives
		Dimensions:	2.5"H x 8.5"W x 6"D		
		Module Capacity:	4x Evertz SFP modules 4x SCORPION Mini I/O Modules		
		Operating Temperature:	0–50 °C		

► Ordering Information

SCORPION-4	Media Processing Platform — Standalone Frame	Compatible SFPs:	See separate Evertz compatible SFPs specifications
Ordering Options:		Mini I/O Modules:	See separate Mini I/O Module specifications
SCORPION-4-PSX External power supply for SCORPION-4		10G Trunk Interfaces:	See SFP10G-TR Series specification sheet
SCORPION-4-RP1 Single SCORPION-4 19" rack mount kit (2RU)			
SCORPION-4-RP2 Dual SCORPION-4 19" rack mount kit (2RU)			

► Available Mini I/O Modules * See Mini I/O Module specification sheet for more details

MIO-VB-2-12G	Dual BNC 12G/6G/3G/HD/SD/ASI Video Access Module
MIO-GE-RJ45	1GbE Ethernet Access Module
MIO-AES-IP	AES Access Module over IP
MIO-AES-D4	AES Audio De-embedder Module
MIO-IT-IP	Intercom Transceiver Module (2x Analog Audio In/Out, 2x Serial Data, 4x GPIO), dual slot
MIO-HDMI-IN-3G	HDMI Input Access Module
MIO-HDMI-OUT-3G	HDMI Output Access Module
MIO-HDMI-IN-4K	4K SDI and HDMI Input Module, dual slot
MIO-HDMI-OUT-4K	4K SDI and HDMI Output Module, dual slot