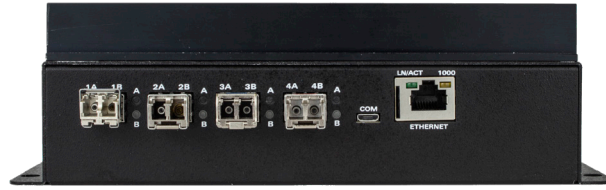


# SCORPION-4

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.

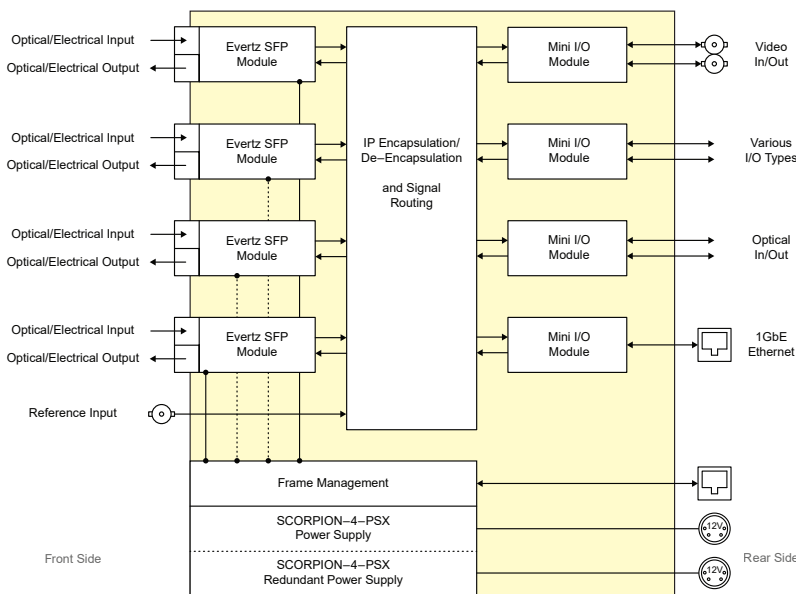
Using SCORPION Mini I/O Modules, the SCORPION-4 is highly flexible and can accommodate a multitude of signals including 4K SDI, Ethernet, MADI, AES, HDMI, intercom and serial data. The SCORPION-4 features encapsulation and de-encapsulation to IP over dual 10GbE or 25GbE trunk ports.

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
- IP encapsulation/de-encapsulation supporting SMPTE ST 2022-6 and 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 *(depending on MIO Module)*
- 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



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MEDIA ASSET & PLAYOUT  
MULTIVIEWERS  
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ROUTERS  
WAN TRANSPORT

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## Specifications

### System:

Density: 4x SFPs, 4x SCORPION mini I/O modules  
Impedance: Depends on SCORPION mini I/O module (see appropriate specifications)  
Connector: Depends on SCORPION mini I/O module (see appropriate specifications)

### Communication and Control:

Ethernet: SNMP over IEEE 802.3/U (10/100/1000 BaseTx) RJ-45 connector  
Control: SNMP, web access, direct control and control panels

### Electrical Inputs/Outputs:

Connector: Depends on SCORPION mini I/O module (see appropriate specifications)  
Impedance: Depends on SCORPION mini I/O module (see appropriate specifications)

### Reference:

No. of Inputs: 1  
Connector: BNC IEC 61169.8 Annex A  
Reference Inputs: Analog 625 or 525, tri-level HD  
Impedance: 75Ω

### Physical:

Dimensions: 2.5" H x 8.5" W x 6" D (63.5 x 216 x 152mm)  
Module Capacity: 4x Evertz SFP modules, 4x SCORPION mini I/O modules  
Operating Temp.: 0–50°C

### Electrical:

Power Supply Configuration: Dual external supplies (primary/secondary)  
Voltage: DC input 12V DC (external power supplies require 110–220V AC 50/60Hz)  
Power Consumption: 25W empty, 132W fully loaded  
Connectors: 12V DC, auto ranging 100–240V AC 50/60Hz adapter included  
Status Indicators: LED on unit

### Compliance:

Safety:  
Nemko listed: IEC 62368-1:2014  
IEC 60950-1:2005, AMD1:2009, AMD2:2013  
UL 623698-1 2nd ED.  
CAN/CSA-C22.2 No. 62368-1-14  
EMC/EMI:  
Nemko listed: FCC 47 CFR Part15, Subpart B, ICES-003:2016, EN 55032:2012/AC:2013, EN 55035:2017

## Ordering Information

**SCORPION-4** Media Processing Platform — Standalone Frame.

### 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).

### Mini I/O Module Options:

**MIO-VB-2-12G** 12G/6G/3G/HD/SD/ASI video access module.  
**MIO-GE-RJ45-IP-SA** 1GbE Ethernet access module with onboard processing.  
**MIO-AES-IP** Dual AES67 encapsulator and de-encapsulator.  
**MIO-AES-IN4-IP** Quad AES67 encapsulator.  
**MIO-AES-OUT4-IP** Quad AES67 de-encapsulator.  
**MIO-AES-D4 AES** audio de-embedder module.  
**MIO-MADI-2-IP** Single MADI encapsulator and de-encapsulator.  
**MIO-DANTE-64** Dante® to TDM bridge module.  
**MIO-IT-IP** Intercom transceiver module (2x analog audio in/out, 2x serial data, 4x GPIO), dual slot  
**MIO-AVT** Analog video/Black Burst transmit module with loop out.  
**MIO-AVR** Analog video/Black Burst receive module.  
**MIO-USB-A** USB-A HID interface.  
**MIO-USB-B** USB-B HID interface.  
**MIO-HDMI-IN-3G** HDMI input access module.  
**MIO-HDMI-OUT-3G** HDMI output access module.  
**MIO-HDMI-IN-4K** 4K SDI or HDMI input module, dual slot.  
**MIO-HDMI-OUT-4K** 4K SDI or HDMI output module, dual slot  
**MIO-HDMI-IN1-4K-IP** HDMI input module with onboard processing, dual slot  
**MIO-HDMI-OUT1-4K-IP** HDMI output module with onboard processing, dual slot  
**MIO-HDMI-2-4K-IP** HDMI microservice module  
**MIO-BLADE-Z21** Microservice module  
**MIO-DE4-3G** 3G/HD/SD-SDI SCTE/data/LTC/GPI embedding module  
**MIO-DD4-3G** 3G/HD/SD-SDI SCTE/data/LTC/GPI de-embedding module



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<https://www.go2mhz.com/product/media-processing-platform-2/>

# SCORPION-4

Media Processing Platform — Standalone Frame



## SFP Interface Options:

<b>SFPTR-13</b>	SFP optical non-reclocked transceiver, 3Gb/s, 1310nm, SMF
<b>SFP3TR-13-12G</b>	SFP optical reclocked transceiver, 12Gb/s, 1310nm, SMF
<b>SFP12G-T13-2</b>	SFP optical reclocked dual transmitter, 12Gb/s, 1310nm, SMF
<b>SFP12G-R-2</b>	SFP optical reclocked dual receiver, 12Gb/s, 1310nm, SMF
<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>SFP25G-TR13</b>	SFP, 25Gb/s, SMF