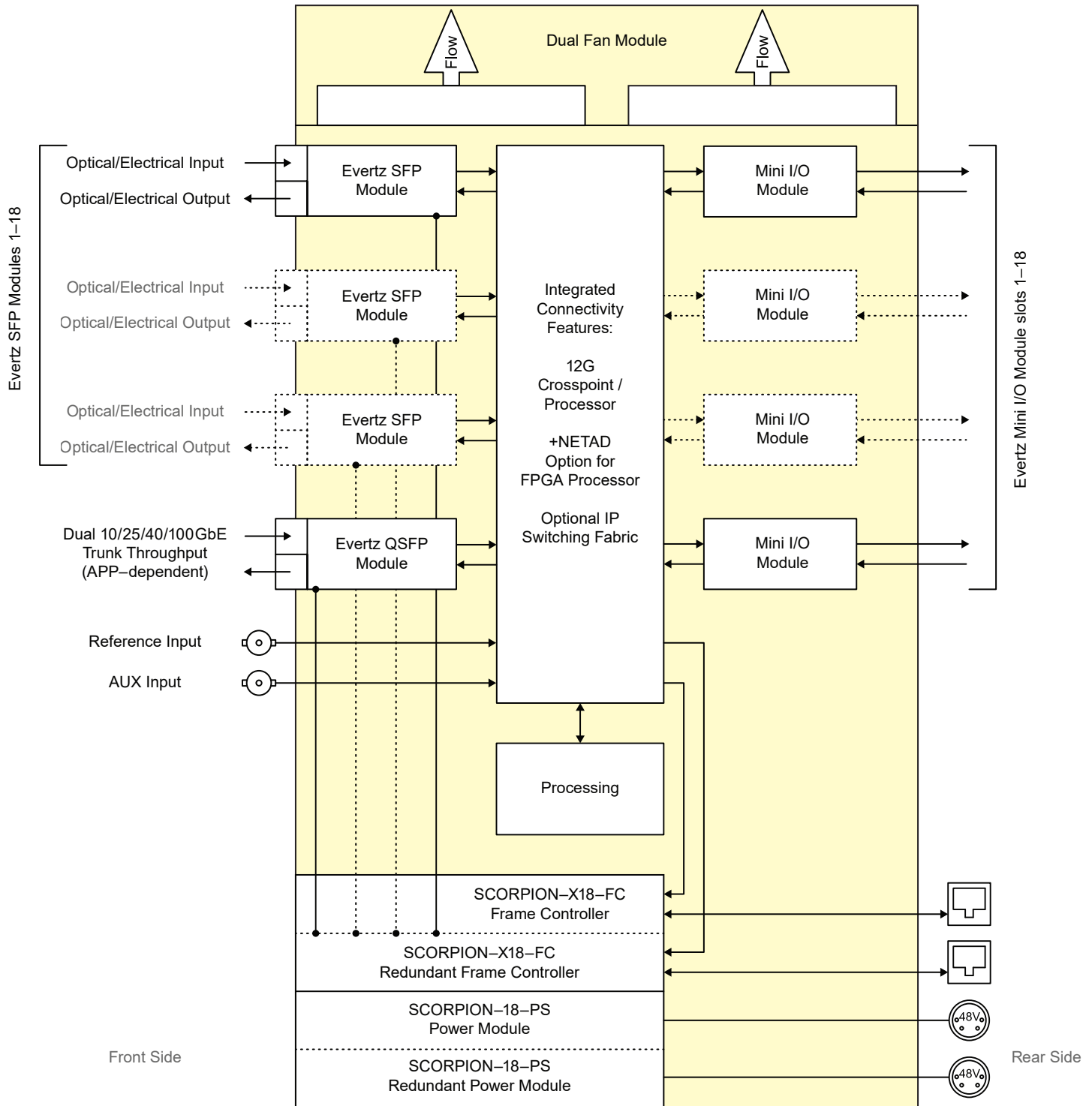


SCORPION 18 Series

Flexible Media Processing Platform



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Specifications

System:

Density: 18x front-facing SFPs,
18x rear-facing
SCORPION mini I/O
module slots,
dual 1/10/25/40/100GbE
trunk ports

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

Connector: Dependant 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
and control panels

Electrical Inputs/Outputs:

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

Impedance: 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

Physical:

Dimensions: 1.8" H x 19" W x 13.875" D
(46 x 483 x 353mm)
Module Capacity: 18x Evertz SFP modules,
18x SCORPION
mini I/O modules

Electrical:

Power Supply Configuration:
Dual external supplies
(primary/secondary)
Voltage: DC input 48V DC
(external power supplies
requires 110–220V AC,
50/60Hz)

Max. Power Consumption:
Please refer to
[power calculator in
frame layout tool](#)
in Tools section

Connectors: 4-pin male XLR
Status Indicators: SCORPION-X18-PS
status LEDs (each per
power supply tray)

Ordering Information

SCORPION-X18

Base SCORPION 18 series chassis. Includes 12G crosspoint, a single power supply and single power module. Frame controllers and additional options sold separately.

SCORPION-X18-NPSX

Base SCORPION 18 series chassis. Includes 12G crosspoint and a single power module. Frame controllers, power supplies and other additional options sold separately (for use with bulk or high power supplies).

SCORPION-X18+NETAD

SCORPION 18 series chassis. Includes 12G crosspoint, integrated SMPTE ST 2110 IP gateway, a single power supply and single power module. Frame controllers and additional options sold separately. Software APP for NETAD is required (see descriptions for details).

SCORPION-X18-NPSX+NETAD

SCORPION 18 series chassis. Includes 12G crosspoint, integrated SMPTE ST 2110 IP gateway and a single power module. Frame controllers and additional options sold separately (for use with bulk or high power supplies). Software APP for NETAD is required (see descriptions for details).

SCORPION-SX18

SCORPION 18 series chassis. Includes 12G crosspoint, integrated IPX ethernet switch fabric, a single power supply and single power module. Frame controllers and additional options sold separately. Software APP for NETAD is required (see descriptions for details).

SCORPION-SX18-NPSX

SCORPION 18 series chassis. Includes 12G crosspoint, integrated IPX ethernet switch fabric, and a single power module. Frame controllers, QSFPs/SFPs, and additional options sold separately (for use with bulk or high power supplies).

SCORPION-S18

SCORPION 18 series chassis. Includes integrated IPX ethernet switch fabric, a single power supply and single power module. Frame controllers and additional options sold separately. Software APP for NETAD is required (see descriptions for details).

SCORPION-S18-NPSX

SCORPION 18 series chassis. Includes integrated IPX ethernet switch fabric, and a single power module. Frame controllers, QSFPs/SFPs, and additional options sold separately (for use with bulk or high power supplies).

Frame Controllers:

SCORPION-X18-FC

Frame controller for SCORPION-X18 (not included with chassis)

Power Supply Options:

SCORPION-18-PSX

Low power supply for SCORPION 18 series below 280W
(see power calculator to size appropriately)

SCORPION-18-PSX-HP

400W external power supply for SCORPION-X18 chassis' for use when populating high power blade modules (see power calculator to size appropriately).

SCORPION-18-PS

Internal power module for SCORPION 18 series
(1 additional required to support power redundancy)

SCORPION-18-PS3

SCORPION 18 series 1RU managed power supply tray for powering
3x SCORPION-X18 frames redundantly

SCORPION-18-PS6

SCORPION 18 series 1RU managed power supply tray for powering
6x SCORPION-X18 frames redundantly

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

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Specifications (continued)

Compliance:

Safety: NEMKO listed, complies with CAN/CSA-C22.2 No. 62368-1:2019, UL 62368-1:2019, IEC 62368-1:2018, IEC 60950-1:2005, AMD1:2009, AMD2:2013

EMC/EMI:

EN55032:2012/AC:2013, EN55035:2017, FCC 47 CFR Part 15, Subpart B, ICES-003 Issue 6

Supported Media Standards:

AMWA NMOS IS-04 v1.3, IS-05 v1.1 and BCP-002-01 v1.0

SCORPION-X18-PSX External

Power Supply Brick:

AC Mains Input: Auto-ranging, 100-240V AC, 0/60Hz

Number of Outputs: 1

Output Voltage: 48V DC

Output Connector: 4-pin XLR

Max. Power Dissipation:

280W

Status Indicators: Green OK LED

Ordering Information (continued)

Replacement Fans:

SCORPION-18-FAN

Replacement fan module for SCORPION-X18

SCORPION-18-FAN-HP

High throughput replacement fan module for SCORPION-X18

CWDM Multiplexers/Demultiplexers:

SCORPION-CWDM-M18

Single 18 channel CWDM Mux, 1270nm to 1610nm, include MTP to LC/UPC breakout cable

SCORPION-CWDM-D18

Single 18 channel CWDM Demux, 1270nm to 1610nm, include MTP to LC/UPC breakout cable

SCORPION-CWDM-2-M18

Dual 18 channel CWDM Mux, 1270nm to 1610nm, includes MTP to LC/UPC breakout cable

SCORPION-CWDM-2-D18

Dual 18 channel CWDM Demux, 1270nm to 1610nm, includes MTP to LC/UPC breakout cable

SCORPION-CWDM-M9

Single 9 channel CWDM Mux, 1450nm to 1610nm, include 1 X MTP to LC/UPC breakout cable

SCORPION-CWDM-D9

Single 9 channel CWDM Demux, 1450nm to 1610nm, include 1 X MTP to LC/UPC breakout cable

SCORPION-CWDM-2-M9

Dual 9 channel CWDM Mux, 1450nm to 1610nm, include 2 X MTP to LC/UPC breakout cable

SCORPION-CWDM-2-D9

Dual 9 channel CWDM Demux, 1450nm to 1610nm, include 2 X MTP to LC/UPC breakout cable

NETAD Software APPs:

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-J2K-12E

SCORPION-X18 APP supporting 12x encodes from SDI to JPEG2000 (JPEG2000 licenses sold separately)

Available Mini I/O Modules

MIO-VB-2-12G

12G/6G/3G/HD/SD/ASI video access module

MIO-GE-RJ45-IP-X18

1GbE Ethernet access module with onboard processing

MIO-AES-IP-X18

Dual AES67 encapsulator and de-encapsulator

MIO-AES-IN4-IP-X18

Quad AES67 encapsulator

MIO-AES-OUT4-IP-X18

Quad AES67 de-encapsulator

MIO-AES-D4-X18

AES audio de-embedder module

MIO-MADI-2-IP-X18

Single MADI encapsulator and de-encapsulator

MIO-DANTE-64-X18

Dante® to TDM bridge module

MIO-IT-IP-X18

Intercom transceiver module (2x analog audio in/out, 2x serial data, 4x GPIO), dual slot

MIO-AVT-X18

Analog video/Black Burst transmit module with loop out

MIO-AVR-X18

Analog video/Black Burst receive module

MIO-USB-A-X18

USB-A HID interface

MIO-USB-B-X18

USB-B HID interface

MIO-HDMI-IN-3G-X18

HDMI input access module

MIO-HDMI-OUT-3G-X18

HDMI output access module

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Available Mini I/O Modules (continued)

MIO-HDMI-IN-4K-X18	4K SDI or HDMI input module, dual slot
MIO-HDMI-OUT-4K-X18	4K SDI or HDMI output module, dual slot
MIO-HDMI-2-4K-IP	HDMI microservice module
MIO-BLADE-Z21	Microservice module
MIO-DE4-3G-X18	3G/HD/SD-SDI SCTE/data/LTC/GPI embedding module
MIO-DD4-3G-X18	3G/HD/SD-SDI SCTE/data/LTC/GPI de-embedding module

Recommended QSFP/SFP Modules

SFPTR-13	SFP optical non-reclocked transceiver, 3Gb/s, 1310nm, SMF
SFPTR-13-R	SFP optical reclocked transceiver, 3Gb/s, 1310nm, SMF
SFP3TR-13-12G	SFP optical reclocked transceiver, 12Gb/s, 1310nm, SMF
SFP12G-T13-2	SFP optical reclocked dual transmitter, 12Gb/s, 1310nm, SMF
SFP12G-R-2	SFP optical reclocked dual receiver, 12Gb/s, 1310nm, 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
SFP3T-xx/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
QSFP-10G-TR13-G	QSFP, 40Gb/s, SMF
QSFP10G-MM-A	QSFP, 40Gb/s, MMF
QSFP25G-SM-PSM4-LR-G-NFEC	QSFP, 25Gb/s, SMF
QSFP25G-MM-M	QSFP, 25Gb/s, MMF