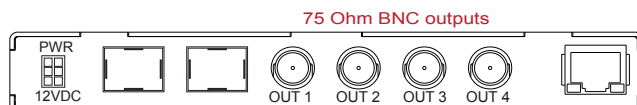
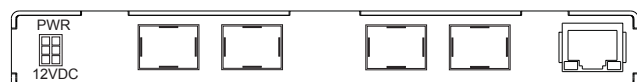


easyPORT: 4 fixed BNC inputs / 2 SFP output cages



easyPORT: 2 SFP cages and 4 fixed BNC Outputs



easyPORT: 2 SFP input cages / 2 SFP output cages

easyPORT: dual SFP cage to 4 BNC inputs

INPUTS

Number of SFP cages 2 dual channel

OUTPUTS

Number of Connections 4
Connector Type BNC, 75 Ohm
Re-clocking Auto-detect compliant with SMPTE ST-259, ST-292, ST-424
Rise/Fall Time < 600 ps, +/- 10% | SMPTE ST-259
< 270 ps, | SMPTE ST-292
< 135ps, | SMPTE ST-424
Overshoot < 10% of amplitude (max.)
Alignment Jitter < 0.2UI , 100kHz to 150MHz
< 0.3UI, 150MHz to 300MHz
Timing Jitter <1.0UI from 10Hz to 100kHz | SMPTE 259/292
< 2.0UI from 10Hz to 100kHz | SMPTE 424
Operational Mode Selections AUTO - detects correct signal type
MANUAL - force to a specific format
BYPASS - allow signals to pass w/o reclocking
Data Rates Supported 143Mbps to 3.0Gbps
Return Loss >15dB from 5Mhz to 1.5Ghz
>10dB, 1.5Ghz to 3GHz
Output cable drivers SMPTE compliant
Output Signal Level 800mV, p-p, +/-10%
Output Signal Polarity Non-inverted

CONTROL & INTERFACES

Network connection 10/100 RJ-45
USB mini-USB port
Software Catrax Network GUI
operates with USB or TCP/IP
Switching Built-in 4X4 crosspoint

ENVIRONMENTAL

Operating Temperature 0-50° C
Operating Humidity 1 0-90% non-condensing
Size (inches) 6.75 W x .825 H x 6.25 D
Size (mm) 171.45mm x 20.96mm x 158.75mm

OPTIONS

Mounting wall bracket for a single chassis
1RU rack mount holds four modules
includes power supply and power cables

easyPORT: 4 BNC outputs to dual SFP cage

INPUTS

Number of Connections 4
Connector Type BNC, 75 Ohm
Return Loss >15dB from 5Mhz to 1.5Ghz
>10dB, 1.5Ghz to 3GHz
Input cable equalization SMPTE 259M - 300m
SMPTE 292M - 100m
SMPTE 424M - 80m
Based on Belden 1694A or equal
Output Signal Level 800mV, p-p, +/-10%
Output Signal Polarity Non-inverted

OUTPUTS

Number of SFP cages 2 dual channel

CONTROL & INTERFACES

Network connection 10/100 RJ-45
USB mini-USB port
Software Catrax Network GUI
operates with USB or TCP/IP
Switching Built-in 4X4 crosspoint

ENVIRONMENTAL

Operating Temperature 0-50° C
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Size (inches) 6.75 W x .825 H x 6.25 D
Size (mm) 171.45mm x 20.96mm x 158.75mm

OPTIONS

Mounting wall bracket for a single chassis
1RU rack mount holds four modules
includes power supply and power cables

easyPORT: dual SFP cage to dual SFP cage

INPUTS

Number of SFP cages 2 dual channel receivers
* Fiber dual LC
* mini-HD BNC 75 Ohm
* NTSC/PAL to SD-SDI converter
* HDMI to 3G-SDI

OUTPUTS

Number of SFP cages 2 dual channel transmitters
* Fiber dual LC
* mini-HD BNC 75 Ohm
* SD-SDI to NTSC/PAL converter
* 3G-SDI to HDMI/DVI-D

CONTROL & INTERFACES

Network connection 10/100 RJ-45
USB mini-USB port
Software Catrax Network GUI
operates with USB or TCP/IP
Switching Built-in 4X4 crosspoint

ENVIRONMENTAL

Operating Temperature 0-50° C
Operating Humidity 1 0-90% non-condensing
Size (inches) 6.75 W x .825 H x 6.25 D
Size (mm) 171.45mm x 20.96mm x 158.75mm

OPTIONS

Mounting wall bracket for a single chassis
1RU rack mount holds four modules
includes power supply and power cables

SFP Features:

3Gbps SDI coaxial dual transmitter Non-MSA, HD-BNC

- SMPTE S-424, S-292, S-259 compliant
- HD-BNC 75 Ohm connector
- Tx Cable Driver
 - supports 270Mb/s, 1.485Gb/s, 2.97Gb/s
- Supports DVB-ASI at 270Mb/s
- Supports video pathological patterns for SD-SDI, HD-SDI, and 3G-SDI
- Hot-pluggable
- Low power consumption - typ. 351mW

SFP Features:

3Gbps SDI coaxial dual receiver Non-MSA, HD-BNC

- SMPTE ST-424, ST-292, ST-259 compliant
- HD-BNC 75 Ohm connector
- Rx Equalizer
 - Equalizes Belden 1694A up to:
 - 140m at 2.97Gb/s
 - 200m at 1.485Gb/s
 - 400m at 270Mb/s
- Supports DVB-ASI at 270Mb/s
- Supports video pathological patterns for SD-SDI, HD-SDI, and 3G-SDI
- Hot-pluggable
- Low power consumption - typ. 615mW

SFP Features:

3Gbps SDI to HDMI/DVI converter Non-MSA, Type-D

- SMPTE ST-424, ST-292, and ST-259 compliant
- 10 bit deserializer & audio de-embedder
- Supported formats
 - 525 / 625
 - 720p / 1080i (50, 59.94, 60Hz)
 - 1080p (23.98, 24, 29.97, 30, 50, 59.94, 60Hz)
- HDMI / DVI Output
 - 24 bit
 - RGB 4:4:4, YCbCr 4:2:2, YCbCr 4:4:4
 - Bandwidth 150MHz
 - RGB range (full/SMPTE)
 - Up to 8 Channel audio embedding (PCM)
 - HDMI 1.4 Type D connector

SFP Features:

HDMI to 3Gbps SDI converter Non-MSA, Type-D

- HDMI / DVI Input
 - 24 bit
 - RGB 4:4:4, YCbCr 4:2:2, YCbCr 4:4:4
 - Bandwidth 150MHz
 - RGB range (full/SMPTE)
 - Up to 8 Channel audio embedding (PCM)
 - HDMI 1.4 Type D connector
- SMPTE ST-424, ST-292, and ST-259 compliant
- 10 bit serializer & audio embedder
- Supported formats
 - 525 / 625
 - 720p / 1080i (50, 59.94, 60Hz)
 - 1080p (23.98, 24, 29.97, 30, 50, 59.94, 60Hz)

SFP Features:

CVBS Codec coaxial dual transmitter Non-MSA, HD-BNC

- SMPTE ST-259 compliant
- HD-BNC 75 Ohm connector
- Supported composite standards
 - NTSC-M, NTSC-J, NTSC 4.43
 - PAL B/G/H/I/D, PAL M, PAL N, PAL 60
- Rx Channel:
 - 10-bit SD-SDI to Composite video encoder
 - Up to 16x oversampling (216MHz)
- Hot-pluggable
- Power consumption- typ 934mW

SFP Features:

CVBS Codec coaxial dual receiver Non-MSA, HD-BNC

- SMPTE ST-259 compliant
- HD-BNC 75 Ohm connector
- Supported composite standards
 - NTSC-M, NTSC-J, NTSC 4.43
 - PAL B/G/H/I/D, PAL M, PAL N, PAL 60
- Rx Channel:
 - 10-bit composite to SD-SDI video decoder
 - 4x oversampling (54MHz)
- Hot-pluggable
- Power consumption- typ 1027mW

FIBER SFP transmitter

Type of connector	LC, SFP Non-MSA
Output data rates	SMPTE ST-424, ST-292, ST-259
Optical wavelength	Singlemode (1310nm)
Output Power	-9 dBm (min) -3 dBm (max)
Total Jitter	120ps (color bars @ 1.485Gbps)
Output Rise time	80ps, 20-80% unfiltered @143/177/270/360/1485 Mbaud
Output Fall time	240ps,
Fiber Transmission Specifications	IEC 61754-20-1
Typical Operating Distances	9/125u (10Km / 6.25 miles) 50/125u (400m / 1200 feet) 62.5/125u (200m / 600feet)

NOTE: Operating distances are approximate only. Cable loss and other interconnects can affect the total light loss between a TX and RX path. These are only estimates and may not reflect the actual lengths achievable.

NOTE: Operating distance is approximate. Typical distances may vary depending on factors such as fiber type, bandwidth, connector splicing, dispersion, and environmental factors.

Laser devices used in Quadbox modules are class 1 laser products. They meet the safety regulations of IEC-60825, FDA 21 CFR 1040.10, and FDA 21 CFR 1040.11.

FIBER SFP receiver

Type of connector	LC, SFP Non-MSA
Input data rates	SMPTE ST-424, ST-292, ST-259
Optical wavelength	min 1270nm, max 1610nm
Input Power	-20 dBm (min) -1 dBm (max)
Total Jitter	135ps (color bars @ 1.485Gbps)
Fiber Transmission Specifications	IEC 61754-20-1
Typical Operating Distances	9/125u (10Km / 6.25 miles) 50/125u (400m / 1200 feet) 62.5/125u (200m / 600feet)

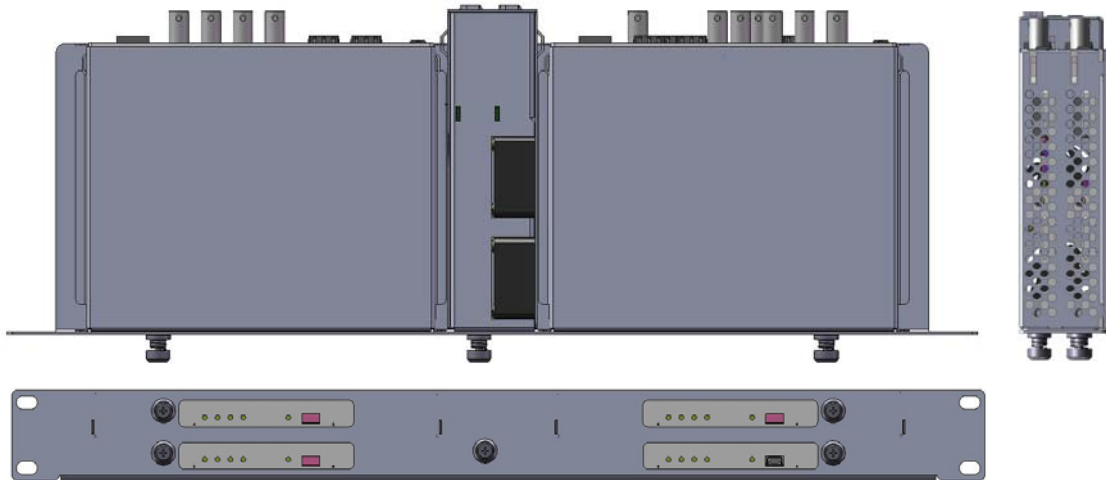
NOTE: Operating distances are approximate only. Cable loss and other interconnects can affect the total light loss between a TX and RX path. These are only estimates and may not reflect the actual lengths achievable.

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1RU FRAME



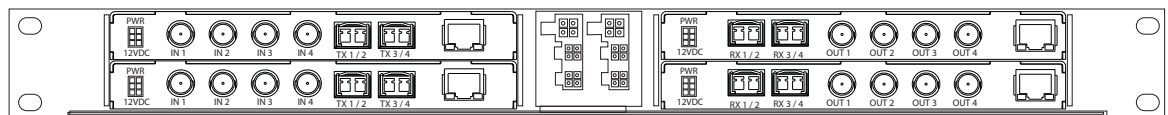
Power Distribution Rack Mount Kits

PESA's Power Distribution Rack kits offer a more streamlined and power efficient method of managing multiple modules in a rack mounted environment. These power distribution rack mount systems are optimized for PESA's Vidblox and easyPORT series of extender modules. Sharing a common power supply source, up to four easyPORT series or two VidBlox series units can be installed in the 1RU frame.

Power Efficiency - Units include an AC Adapter module for 100-240V, 47-63Hz, 1.2A power input providing 12V,7A output. Easy deployment options include connectivity methods for a single power source or a redundant power source. AC power is based on a standard IEC plug for easy adaption to any worldwide AC outlet

Flexible mounting – The power distribution rack mount system makes use of a quick and easy “no-tools” mounting system with captive thumb-screws to hold each module in place. With this design any easyPORT or Vidblox unit can be removed, replaced, or swapped more efficiently without the need of powering down other modules in the rack.

Viewable front LED indicators – each rack frame has openings to allow immediate monitoring of LED displays on the front panel of each installed module.



1RU Extender Frame: allows up to four easyPORT modules to be installed in a 1RU frame. Includes distribution power module that can power all four modules with one power supply. 100VAC to 240VAC, 47-63Hz, 1.2 Amps.

