



PWR 12VDC easyPORT: 2 SFP input cages / 2 SFP output cages

# easyPORT: dual SFP cage to 4 BNC inputs

2 dual channel

### INPUTS

Number of SFP cages

### OUTPUTS

Number of Connections Connector Type Re-clocking

**Rise/Fall Time** 

Overshoot Alignment Jitter

Timing Jitter

**Operational Mode Selections** 

Data Rates Supported Return Loss

Output cable drivers Output Signal Level Output Signal Polarity

#### **CONTROL & INTERFACES**

Network connection USB Software

Switching

### ENVIRONMENTAL

**Operating Temperature** Operating Humidity 1 Size (inches) Size (mm)

### OPTIONS

Mounting

4 BNC, 75 Ohm Auto-detect compliant with SMPTE ST-259, ST-292, ST-424 < 600 ps, +/- 10% | SMPTE ST-259 < 270 ps, | SMPTE ST-292 < 135ps, | SMPTE ST-424 < 10% of amplitude (max.) < 0.2UI, 100kHz to 150MHz < 0.3UI, 150MHz to 300MHz <1.0UI from 10Hz to 100kHz | SMPTE 259/292 < 2.0UI from 10Hz to 100kHz | SMPTE 424 AUTO - detects correct signal type MANUAL - force to a specific format BYPASS - allow signals to pass w/o reclocking 143Mbps to 3.0Gbps >15dB from 5Mhz to 1.5Ghz >10dB, 1.5Ghz to 3GHz SMPTE compliant 800mV, p-p, +/-10% Non-inverted

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

0-50° C 0-90% non-condensing 6.75 W x .825 H x 6.25 D 171.45mm x 20.96mm x 158.75mm

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

4

# INPUTS

Number of Connections Connector Type Return Loss

Input cable equalization

Output Signal Level

### OUTPUTS

Number of SFP cages

#### **CONTROL & INTERFACES**

**Output Signal Polarity** 

# Network connection

Switching ENVIRONMENTAL

USB

Software

**Operating Temperature** Operating Humidity 1 Size (inches) Size (mm)

### **OPTIONS**

Mounting

BNC, 75 Ohm >15dB from 5Mhz to 1.5Ghz >10dB. 1.5Ghz to 3GHz SMPTE 259M - 300m SMPTE 292M - 100m SMPTE 424M - 80m Based on Belden 1694A or equal 800mV, p-p, +/-10% Non-inverted

2 dual channel

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## easyPORT: dual SFP cage to dual SFP cage

INPUTS

Number of SFP cages

\* mini-HD BNC 75 Ohm \* NTSC/PAL to SD-SDI converter

\* HDMI to 3G-SDI

\* Fiber dual LC

2 dual channel transmitters

2 dual channel receivers

- \* Fiber dual LC
- \* mini-HD BNC 75 Ohm
- \* SD-SDI to NTSC/PAL converter
- \* 3G-SDi to HDMI/DVI-D

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

OUTPUTS Number of SFP cages

### **CONTROL & INTERFACES**

Network connection USB Software

Switching

### **ENVIRONMENTAL**

**Operating Temperature** Operating Humidity 1 Size (inches) Size (mm)

### **OPTIONS**

Mounting



### 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

SEP Features:

- 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:

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

LC, SFP Non-MSA

- 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

### FIBER SFP transmitter

Fiber Transmission Specifications

Typical Operating Distances

Type of connector Output data rates Optical wavelength Output Power

Output Rise time

Output Fall time

Total Jitter

SMPTE ST-424, ST-292, ST-259 Singlemode (1310nm) -9 dBm (min) -3 dBm (max) 120ps (color bars @ 1.485Gbps) 80ps, 20-80% unfiltered @143/177/270/360/1485 Mbaud 240ps, IEC 61754-20-1 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.

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

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

- 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 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 receiver

Type of connector Input data rates Optical wavelength Input Power

Total Jitter Fiber Transmission Specifications Typical Operating Distances LC, SFP Non-MSA SMPTE ST-424, ST-292, ST-259 min 1270nm, max 1610nm -20 dBm (min) -1 dBm (max) 135ps (color bars @ 1.485Gbps) IEC 61754-20-1 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.

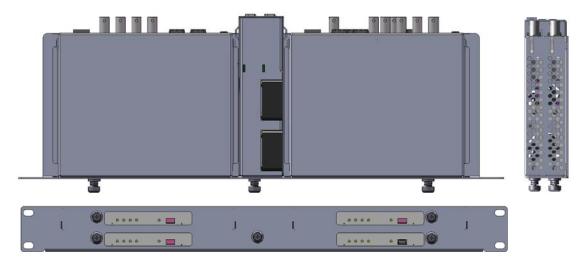
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**1RU FRAME** 



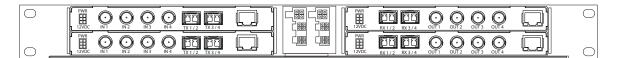
# **Power Distribution Rack Mount Kits**

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.

6.25

