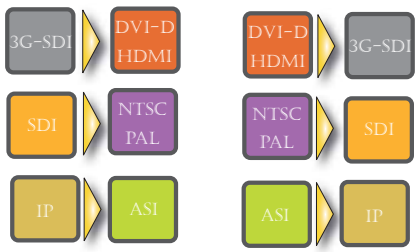
www.pesa.com
1-800-328-1008



easyPORT
multiport converter module

A practical solution to switch, transcode, convert and extend signals over copper or fiber optics

PESA's easyPORT boxes are multi-format converters that provide a wide range of port options and port density. The easyPORT converters can be configured to support crosspoint switching or conversion for ASI, SDI, HD-SDI, 3G-SDI, HDMI/DVI, and NTSC/PAL. The basic easyPORT modules are based on three styles: 1) Quad BNC inputs to dual SFP cages outputs; 2) Dual SFP cage inputs to Quad BNC outputs and Dual SFP cages for up to four inputs and four outputs per converter box. The four SFP type card cages can be populated to fit practically any combination of input and output signals. Each easyPORT comes with a built-in Ethernet port and USB port for easy setup and diagnostics. Up to four easyPORT converters can be loaded in a 1RU frame with support for redundant power. Setup is simple with the supplied GUI interface.

easySFP for LC fiber optic Receiver

Either singlemode or multimode cabling is supported. When using singlemode, the easyPORT converter can support distances up to 10Km; and up to 600m with Multimode using industry compliant LC connectors. easyPORT is compliant with SMPTE 259, 292, 372, and 424 ensuring highly flexible and reliable media conversion for any application. Modules support up to four ASI/SDI, HD-SDI or 3G-SDI signals utilizing a 2.97Gb/s optical transport per fiber port.

easySFP for LC fiber optic Transmitter

Either singlemode or multimode cabling is supported. When using singlemode, the easyPORT converter can support distances up to 10Km; and up to 600m with Multimode using industry compliant LC connectors. easyPORT is compliant with SMPTE 259, 292, 372, and 424 ensuring highly flexible and reliable media conversion for any application. Modules support up to four ASI/SDI, HD-SDI or 3G-SDI signals utilizing a 2.97Gb/s optical transport per fiber port.

easySFP for mini-HD BNC Receiver

Mini-BNC SFP dual receiver module designed to receive two SDI signals up to 2.97Gbps over 75Ω coaxial cables via HD BNC connectors. Each module supports signal formats for ASI, SD-SDI, HD-SDI, and 3G-SDI. Extend cables up to 100m.

easySFP for mini-HD BNC Transmitter

Mini-BNC SFP dual transmitter module designed to transmit two SDI signals up to 2.97Gbps over 75Ω coaxial cables via HD BNC connectors. Each module supports signal formats for ASI, SD-SDI, HD-SDI, and 3G-SDI. Extend cables up to 100m.

easySFP for NTSC/PAL to SD-SDI converter

An electrical SFP dual receiver module designed to decode two video composite (CVBS) over 75Ω coaxial cables via HD-BNC connectors. The module decodes NTSC or PAL composite inputs and convert to SD-SDI signal

easySFP for NTSC/PAL to SD-SDI converter

An electrical SFP dual transmitter module designed to encode two video composite (CVBS) over 75Ω coaxial cables via HD-BNC connectors. The module encodes the SD-SDI signal to NTSC or PAL composite output.

easySFP for HDMI to 3Gbps SDI Receiver

An electrical SFP receiver module designed to convert HDMI to an SDI signal output without scaling artifacts. Up to 8 channels of PCM audio supported.

easySFP for 3Gbps to HDMI Transmitter

An electrical SFP transmitter module designed to convert SDI signals to an HDMI/DVI output without scaling artifacts. Up to 8 channels of PCM audio supported

Features

Three chassis options
- Four 75 Ohm BNC inputs to two SFP cage outputs
- Two SFP cage inputs to four 75 Ohm BNC outputs
- Two SFP cage inputs to two SFP cage outputs

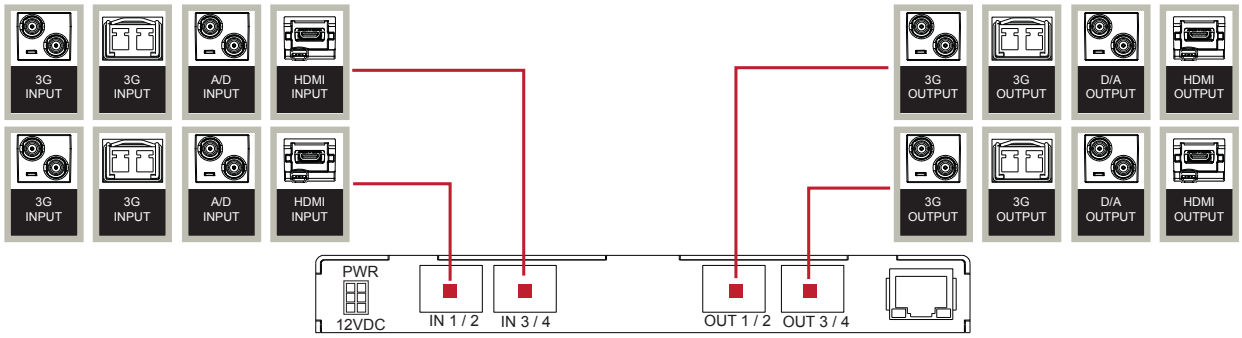
Four SFP Receiver options
- Dual Fiber 3G-SDI Receivers
- Dual mini-HD 3G-SDI Receiver
- Dual NTSC/PAL to SD-SDI converters
- Single HDMI to 3Gbps converter

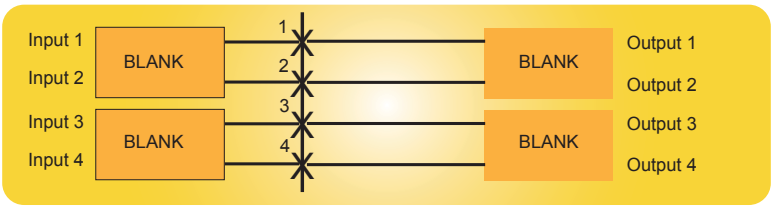
Four SFP Transmitter options
- Dual Fiber 3G-SDI Transmitters
- Dual mini-HD 3G-SDI Transmitters
- Dual SD-SDI to NTSC/PAL converters
- Single 3Gbps to HDMI converter

Small form factor chassis allows up to four units in a 1RU space
Optional 1RU frame with redundant power
Optional under-the-table mounting bracket
Ethernet port for 10/100 network connection
USB port for local setup and diagnostics
Includes Cattrax GUI software
Low power consumption
12 VDC, 90-240VAC 60/50Hz power plug for stand-alone units
90-240VAC, 60/50Hz power module for 1RU frame

Full HD 1080 HDMI dvi

easyPORT: Blank SFP Module for Custom Build Converters

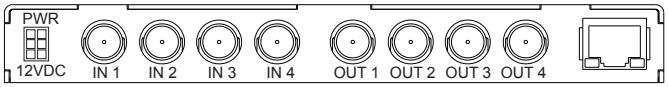


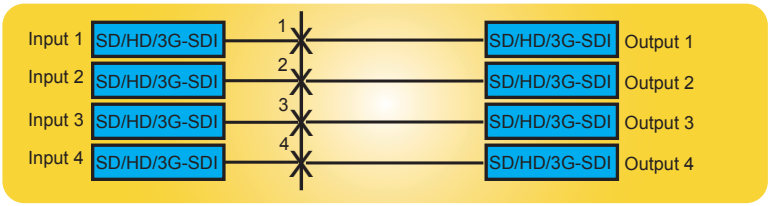


- 4 empty SFP cages
- Built-in 4X4 Switch
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D
- ORDER SFP MODULES SEPERATELY

Model	Description	Part Number
easyPORT	Utility Switcher w/ empty SFP cages- 4 slots	EASY-4X4CAGE

easyPORT: 4 SD/HD/3G-SDI X 4 SD/HD/3G-SDI Utility Switch

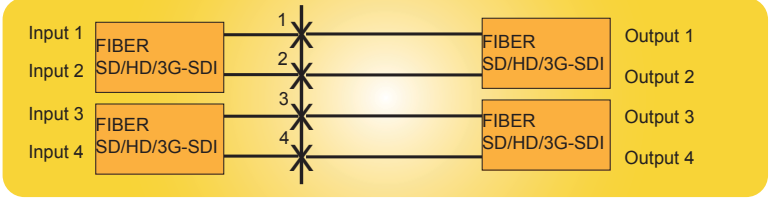




- 4 BNC inputs for ASI, SD, HD, 3G-SDI
- 4 BNC outputs for ASI, SD, HD, 3G-SDI
- Built-in 4X4 switcher
- Up to 3Gbps video transport
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

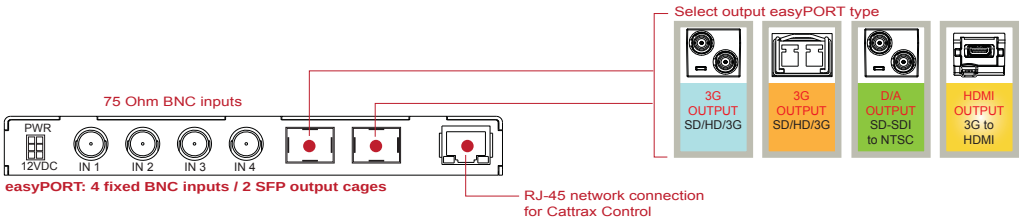
Model	Description	Part Number
easyPORT	4X4 Utility Switcher for 3G-SDI Video	EASY-4BX4B

easyPORT: 4 SD/HD/3G-SDI X 4 SD/HD/3G-SDI Fiber Switch

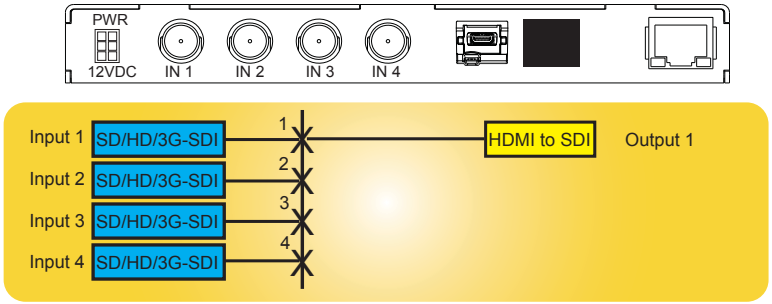


- 4 Fiber inputs for ASI, SD, HD, 3G-SDI
- 4 Fiber outputs for ASI, SD, HD, 3G-SDI
- Built-in 4X4 switcher
- Up to 3Gbps video transport
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	4X4 Utility Switcher for 3G-SDI Video	EASY-4FX4F



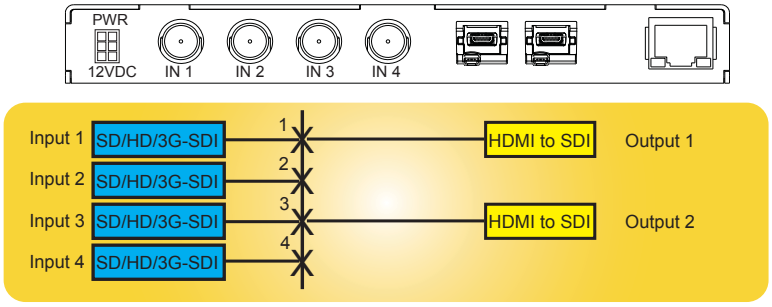
easyPORT 4x1: 4 SD/HD/3G-SDI Inputs to 1 HDMI Output



- 4 BNC: SD/HD/3G-SDI inputs
- 1 HDMI output
- Built-in 4x1 Switch
- Up to 1080p60 video transport
- Network & USB control ports
- Includes setup software and power supply
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	4 SD/HD/3G-SDI inputs to 1 HDMI output	EASY-4BX1H

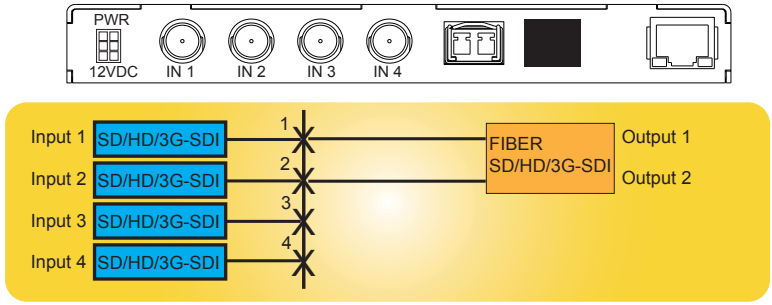
easyPORT 4x2: 4 SD/HD/3G-SDI Inputs to 2 HDMI Outputs



- 4 BNC: SD/HD/3G-SDI inputs
- 2 HDMI outputs
- Built-in 4x2 Switch
- Up to 1080p60 video transport
- Network & USB control ports
- Includes setup software and power supply
- Small size : 6.75 W X .825 H X 6.25 D

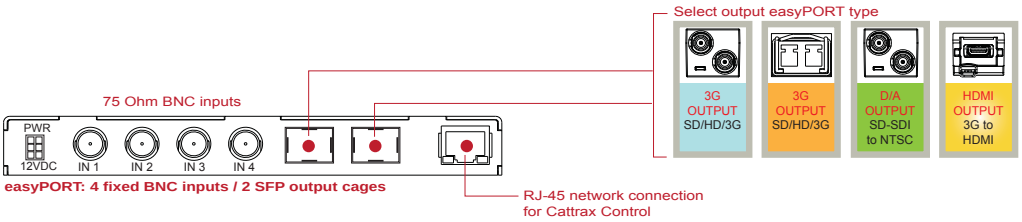
Model	Description	Part Number
easyPORT	4 SD/HD/3G-SDI inputs to 2 HDMI outputs	EASY-4BX2H

easyPORT 4x2: 4 SD/HD/3G-SDI Inputs to 2 Fiber Output

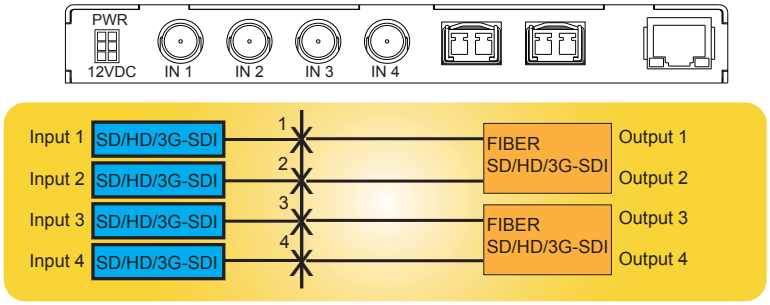


- 4 BNC: SD/HD/3G-SDI inputs
- 2 FIBER: SD/HD/3G-SDI outputs
- Built-in 4x2 Switch
- Up to 1080p60 video transport
- Network & USB control ports
- Includes setup software and power supply
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	4 SD/HD/3G-SDI inputs to 2 fiber output	EASY-4BX2F



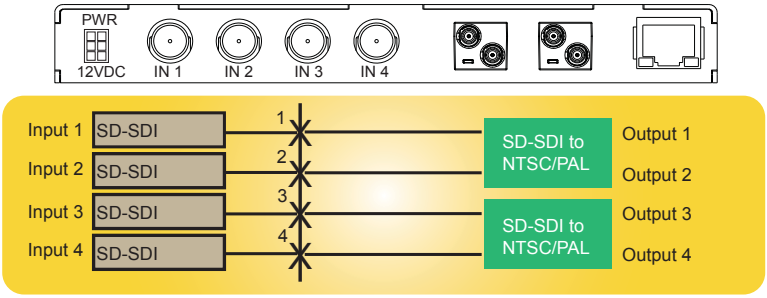
easyPORT 4x4: 4 SD/HD/3G-SDI Inputs to 4 Fiber Output



- 4 BNC: SD/HD/3G-SDI inputs
- 2 FIBER: SD/HD/3G-SDI outputs
- Built-in 4x4 Switch
- Up to 1080p60 video transport
- Network & USB control ports
- Includes setup software and power supply
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	4 SD/HD/3G-SDI inputs to 4 fiber output	EASY-4BX4F

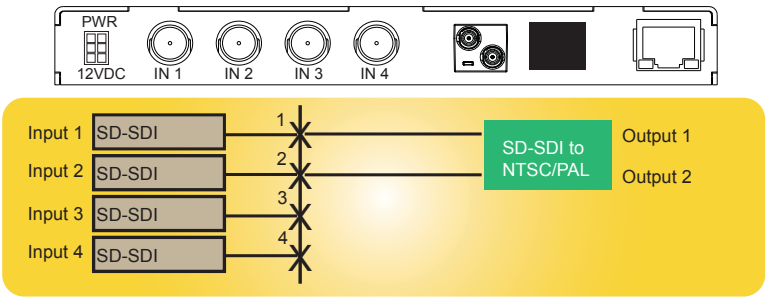
easyPORT 4x4: SD-SDI inputs to NTSC/PAL Outputs



- 4 BNC: SD-SDI inputs
- 4 Mini-BNC: NTSC/PAL outputs
- Built-in 4X4 Switch
- Up to 270Mbps
- Network & USB control ports
- Includes setup software and power supply
- Small size : 6.75 W X .825 H X 6.25 D

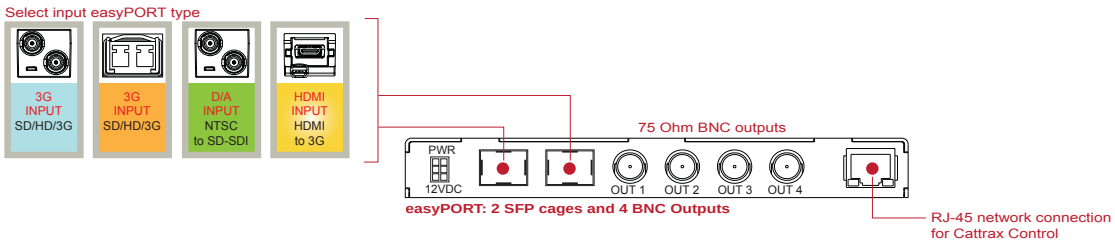
Model	Description	Part Number
easyPORT	4 SD-SDI inputs to 4 NTSC/PAL outputs	EASY-4BX4DA

easyPORT 4x2: SD-SDI inputs to NTSC/PAL Outputs

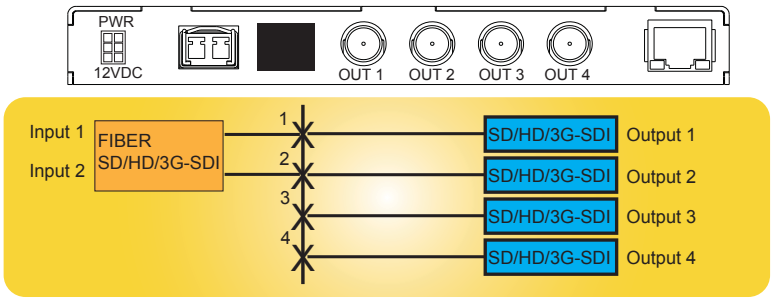


- 4 BNC: SD-SDI inputs
- 2 Mini-BNC: NTSC/PAL outputs
- Built-in 4X2 Switch
- Up to 270Mbps
- Network & USB control ports
- Includes setup software and power supply
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	4 SD-SDI inputs to 2 NTSC/PAL outputs	EASY-4BX2DA



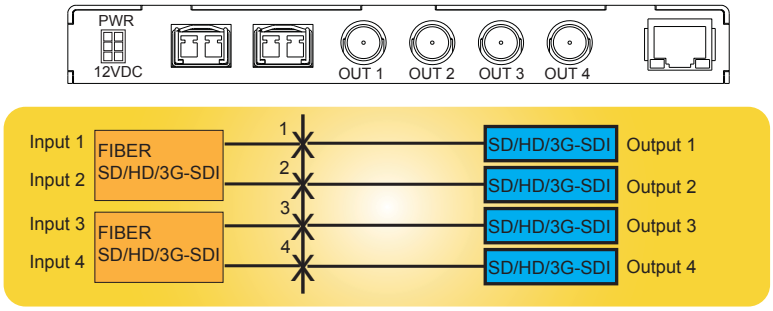
easyPORT 2x4: Fiber Inputs to Coax SD/HD/3G-SDI Outputs



- 2 FIBER: SD/HD/3G-SDI inputs
- 4 BNC: SD/HD/3G-SDI outputs
- Built-in 2X4 Switch
- Up to 1080p60 video transport
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	2 Fiber Inputs / 4 BNC outputs: SD/HD/3G-SDI	EASY-2FX4B

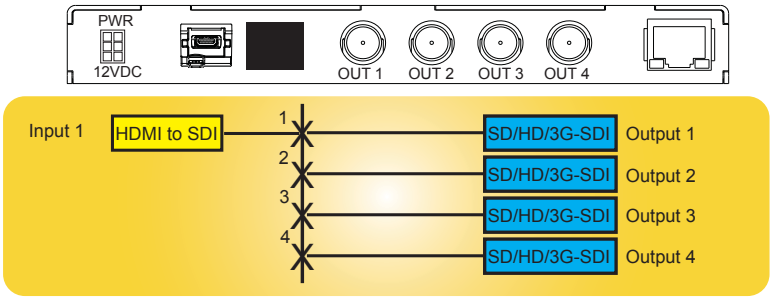
easyPORT 4x4: Fiber Inputs to Coax SD/HD/3G-SDI Outputs



- 4 FIBER: SD/HD/3G-SDI inputs
- 4 BNC: SD/HD/3G-SDI outputs
- Built-in 4X4 Switch
- Up to 1080p60 video transport
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

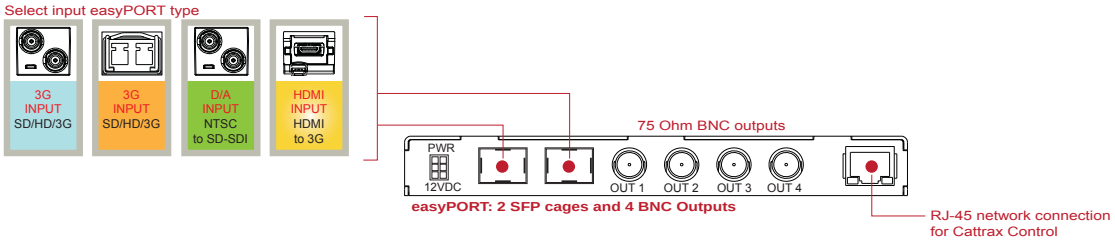
Model	Description	Part Number
easyPORT	4 Fiber Inputs / 4 BNC Outputs: SD/HD/3G-SDI	EASY-4FX4B

easyPORT 1x4: HDMI Input to 4 SD/HD/3G-SDI Outputs

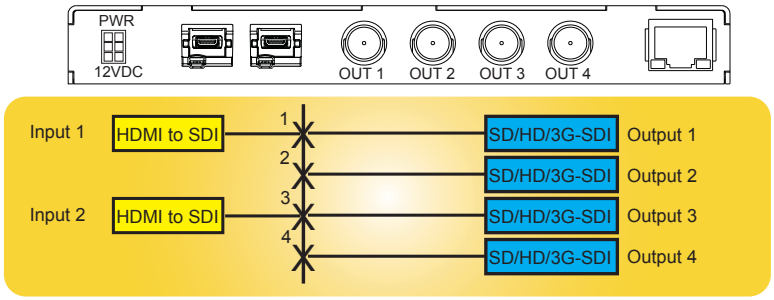


- 1 HDMI input
- 4 BNC: SD/HD/3G-SDI outputs
- Built-in 1X4 Switch
- Up to 1080p60 video transport
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	HDMI input to 4 BNC SD/HD/3G-SDI outputs	EASY-1HX4B



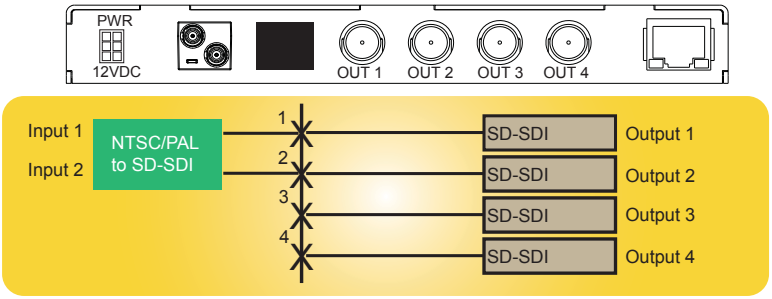
easyPORT 2x4: 2 HDMI Inputs to 4 SD/HD/3G-SDI Outputs



- 2 HDMI inputs
- 4 BNC: SD/HD/3G-SDI outputs
- Built-in 2X4 Switch
- Up to 1080p60 video transport
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	2 HDMI inputs to 4 BNC SD/HD/3G-SDI outputs	EASY-2HX4B

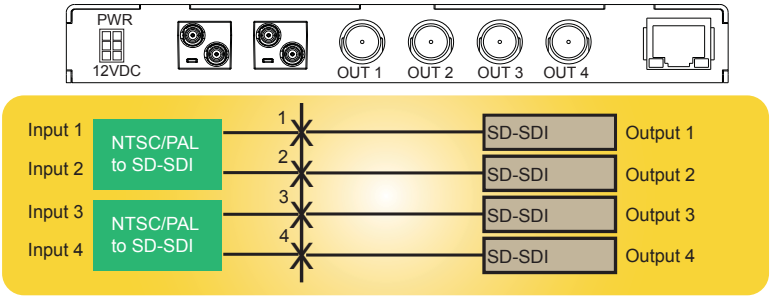
easyPORT 2x4: NTSC/PAL inputs to SD-SDI Outputs



- 2 NTSC/PAL to SDI inputs
- 4 BNC: SD-SDI outputs
- Built-in 2X4 Switch
- Up to 270Mbps
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

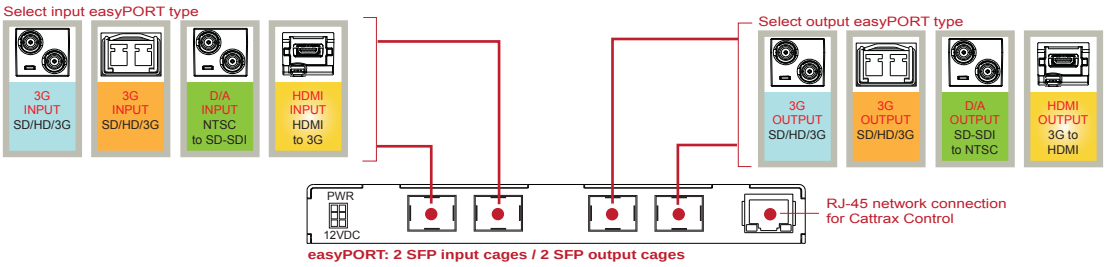
Model	Description	Part Number
easyPORT	2 NTSC/PAL inputs to 4 SDI outputs	EASY-2ADX4B

easyPORT 4x4: NTSC/PAL inputs to SD-SDI Outputs

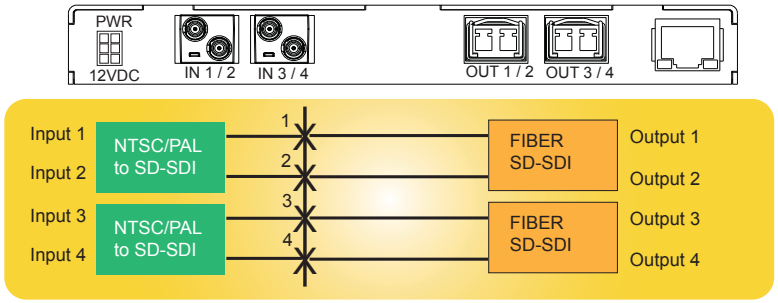


- 2 NTSC/PAL to SDI inputs
- 4 BNC: SD-SDI outputs
- Built-in 4X4 Switch
- Up to 270Mbps
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	4 NTSC/PAL inputs to 4 SDI outputs	EASY-4ADX4B



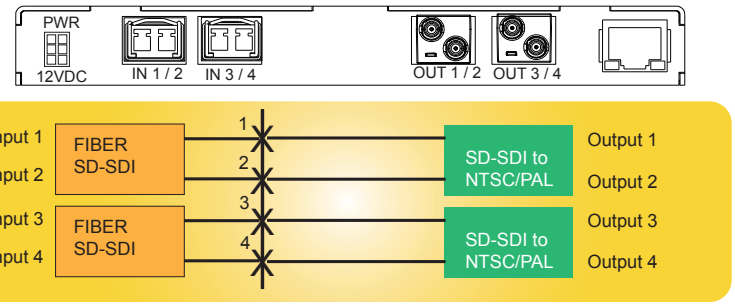
easyPORT 4x4: NTSC/PAL inputs to Fiber SD-SDI Outputs



- 4 NTSC/PAL to SDI inputs
- 4 FIBER: SD-SDI outputs
- Built-in 4X4 Switch
- Up to 270Mbps
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	4 NTSC/PAL inputs to 4 Fiber SDI outputs	EASY-4ADX4F

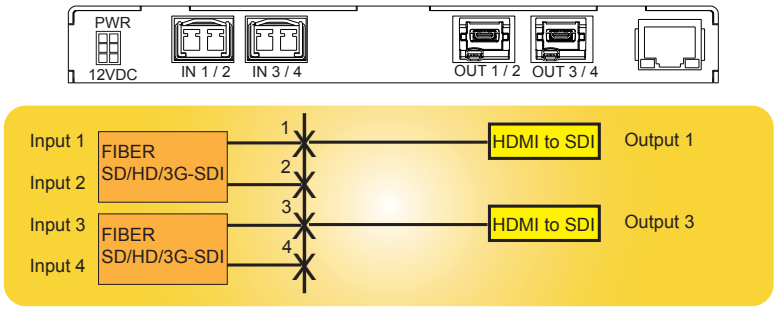
easyPORT 4x4: Fiber SD-SDI input to NTSC/PAL Ouputs



- 4 FIBER SD-SDI inputs
- 4 BNC: NTSC/PAL outputs
- Built-in 4X4 Switch
- Up to 270Mbps
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

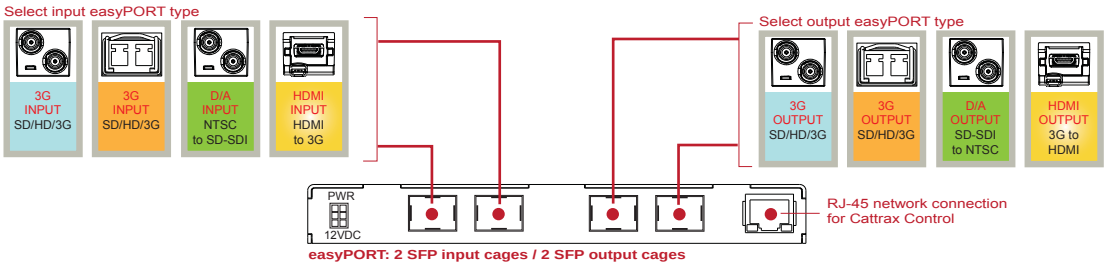
Model	Description	Part Number
easyPORT	4 SD-SDI fiber inputs to 4 NTSC/PAL outputs	EASY-4FX4DA

easyPORT 4x2: 4 SD/HD/3G-SDI Fiber Inputs to 2 HDMI Outputs

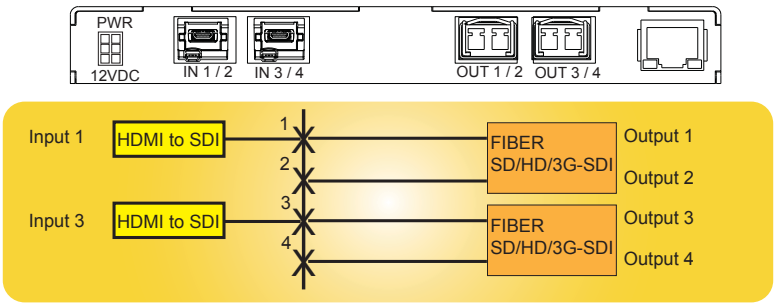


- 4 FIBER SD/HD/3G-SDI inputs
- 2 HDMI outputs
- Built-in 4X2 Switch
- Up to 1080p60 video transport
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	4 SD/HD/3G-SDI Fiber inputs to 2 HDMI outputs	EASY4FX2H



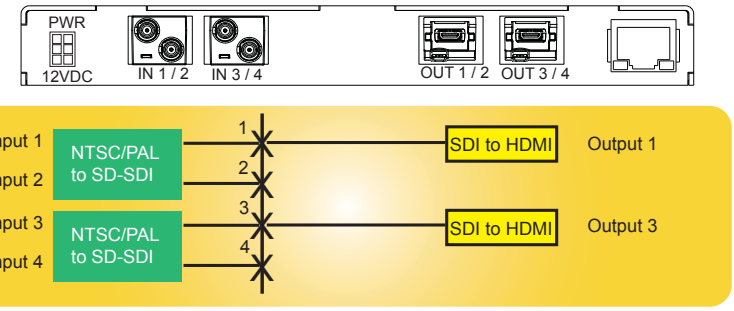
easyPORT 2x4: 2 HDMI inputs to 4 SD/HD/3G-SDI Fiber Outputs



- 2 HDMI inputs
- 4 FIBER SD/HD/3G-SDI outputs
- Built-in 2X4 Switch
- Up to 1080p60 video transport
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	2 HDMI inputs to 3 SD/HD/3G-SDI Fiber Outputs	EASY2HX4F

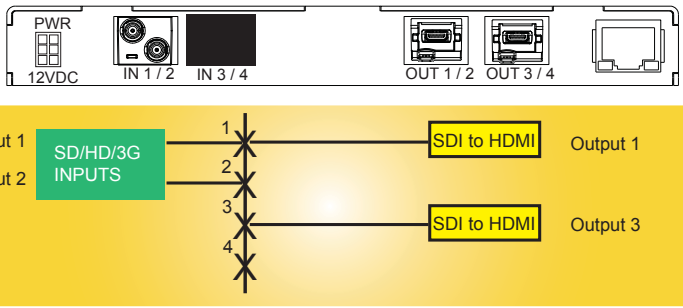
easyPORT 4x2: 4 NTSC/PAL to 2 HDMI Outputs



- 4 BNC Inputs for NTSC/PAL to SDI
- 2 HDMI outputs
- Built-in 4X2 switch fabric
- SDI transport up to 270Mbps
- Network & USB control ports
- Includes setup software and power supply
- Small size : 6.75 W X .825 H X 6.25 D

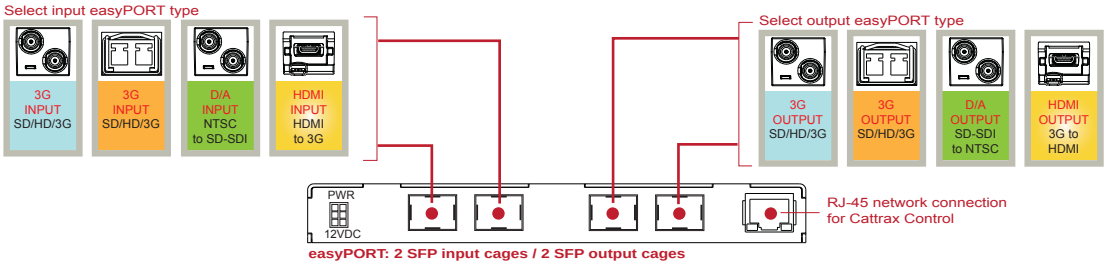
Model	Description	Part Number
easyPORT	Converter, 4 NTSC/PAL to 2 HDMI outputs	EASY-4ADX2H

easyPORT 2x2: 2 BNC SDI inputs to 2 HDMI outputs

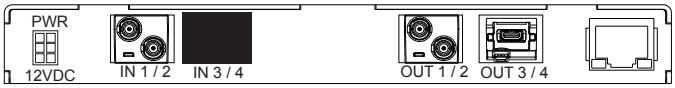


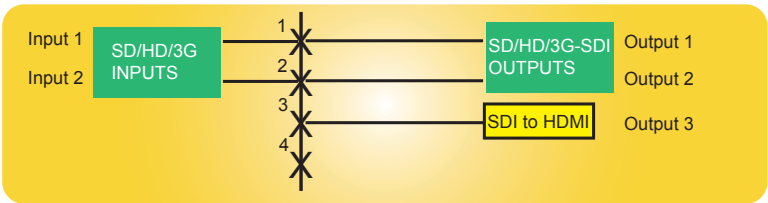
- 2 BNC: SD/HD/3G-SDI inputs
- 2 HDMI outputs
- Built-in 2X2 switch fabric
- Up to 1080p60 video transport
- Includes setup software and power supply
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	Converter, 2 SD/HD/3G-SDI to 2 HDMI ouputs	EASY-2BX2H



easyPORT: 2 BNC SDI inputs to 1HDMI + 2 BNC SDI outputs

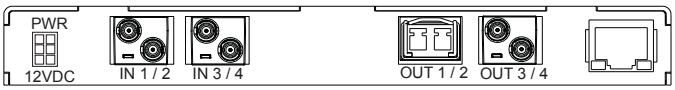


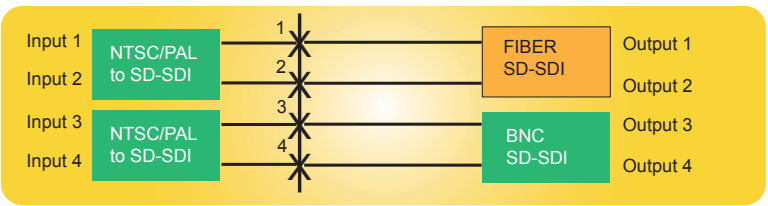


- 2 BNC: SD/HD/3G-SDI inputs
- 2 BNC: SD/HD/3G-SDI outputs
- 1 HDMI output
- Built-in switch fabric
- Up to 1080p60 video transport
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	Converter, 2 SD/HD/3G-SDI to 2 BNC+1HDMI	EASY-2BX2B1H

easyPORT 4x4: 4 NTSC/PAL to 2 SDI Fiber and 2 SDI BNC

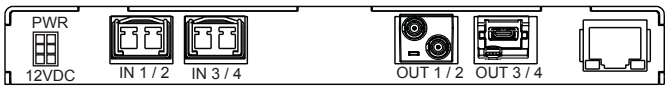


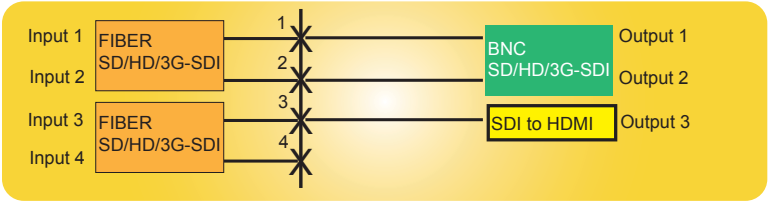


- 4 BNC Inputs for NTSC/PAL to SDI
- 2 Fiber SDI outputs
- 2 BNC SDI outputs
- Built-in 4x4 switch fabric
- SDI transport up to 270Mbps
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	Converter, 4 NTSC/PAL to SDI - Fiber and BNC	EASY-4ADX2F2B

easyPORT 4x3: 4 SD/HD/3G-SDI Fiber Inputs to 2 BNC/1 HDMI Output

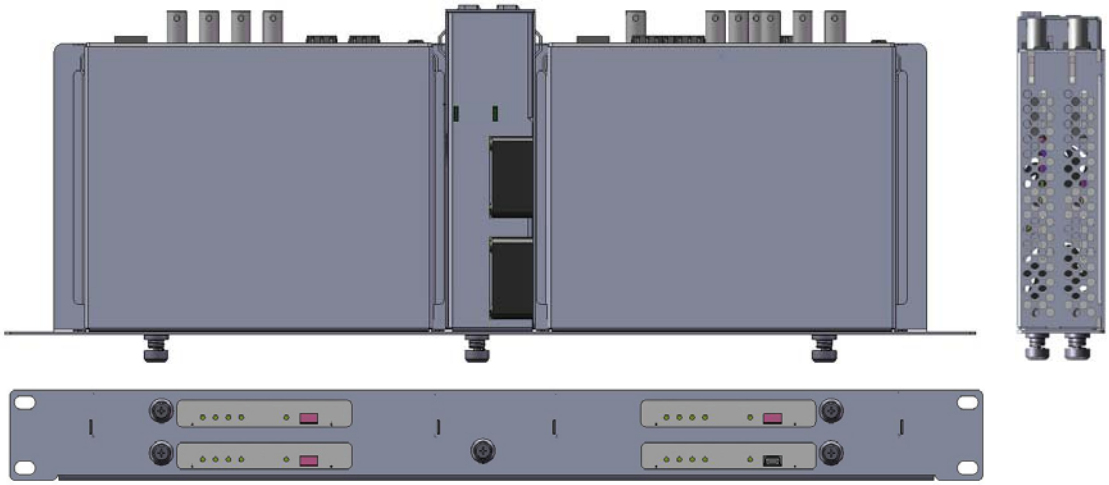




- 4 FIBER SD/HD/3G-SDI inputs
- 2 BNC SD/HD/3G-SDI outputs
- 1 HDMI output
- Built-in 4X3 Switch
- Up to 1080p60 video transport
- Includes setup software and power supply
- Network & USB control ports
- Small size : 6.75 W X .825 H X 6.25 D

Model	Description	Part Number
easyPORT	4 SD/HD/3G-SDI Fiber inputs to 2 BNC + 1 HDMI output	EASY-4FX2B1H

1RU FRAME



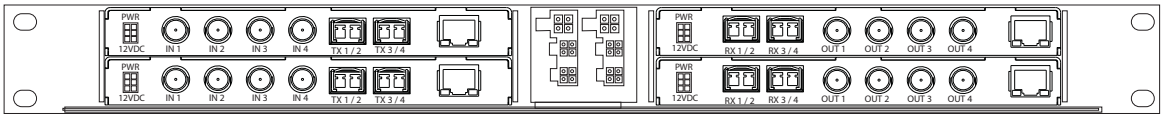
Power Distribution Rack Mount Kits

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.

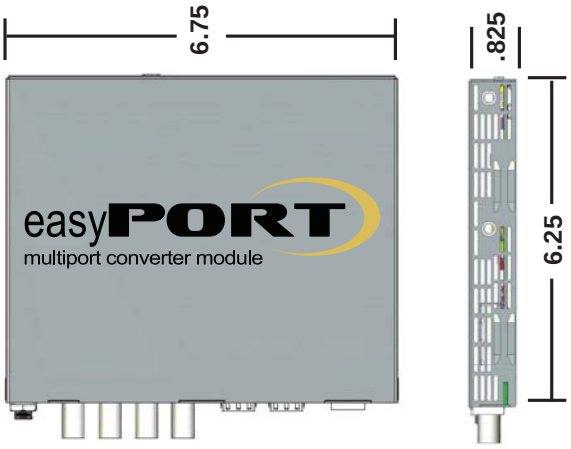
Power Efficiency - Units include an AC Adapter module for 100-240V, 47-63Hz, 1.2A power input providing 12V,7A output. Easy deployment options include connectivity methods for a single power source or a redundant power source. AC power is based on a standard IEC plug for easy adaption to any worldwide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

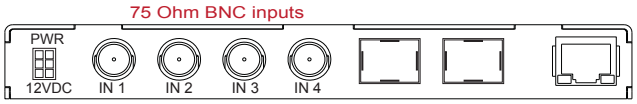
Flexible mounting – The power distribution rack mount system makes use of a quick and easy "no-tools" mounting system with captive thumb-screws to hold each module in place. With this design any easyPORT or Vidblox unit can be removed, replaced, or swapped more efficiently without the need of powering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

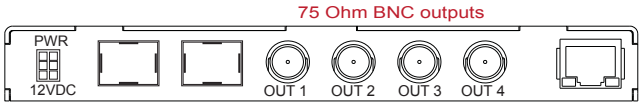


1RU Extender Frame: allows up to four easyPORT modules to be installed in a 1RU frame
Includes distribution power module that can power all four modules with one power supply.
100VAC to 240VAC, 47-63Hz, 1.2 Amps.

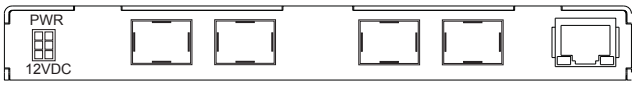




easyPORT: 4 fixed BNC inputs / 2 SFP output cages



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	Cattrax Network GUI operates with USB or TCP/IP
Switching	Built-in 4X4 crosspoint

MECHANICAL

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	Cattrax Network GUI operates with USB or TCP/IP
Switching	Built-in 4X4 crosspoint

MECHANICAL

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	Cattrax Network GUI operates with USB or TCP/IP
Switching	Built-in 4X4 crosspoint

MECHANICAL

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

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

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.

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

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