

Pviper II™ 2-24ch HDMI/Muxed IP

Cost effective multichannel H.264 audio and video encoder and multiplexer with 8 to 24 HDMI inputs. Features up to 24 simultaneous IP SPTS IP outputs or one MPTS IP output. Inserts OSD (On Screen Display), QR code, and logos to brand your channels. Single IP and mirrored DVB-ASI outputs. Supports input resolutions up to 1080p60, output resolutions up to 1080p30. Audio output is MPEG-1 Layer II.



Features

- Inputs: 8 to 24 HDMI inputs
- Outputs: H.264 IP – Up to 24 SPTS outputs and/or one MPTS output
- IP Output Protocols: UDP, RTP
- ASI output as copy of MPTS
- Supports QR code, Logos, and OSD insertion
- Supports MPEG4 AVC/H.264 video encoding
- Supports MPEG1 Layer II audio encoding and audio gain adjustment
- Supports IP null packet filter function
- PID Remapping
- Adjustable PCR timing
- Supports PSI/SI editing and inserting
- Web-based management and updates

Applications

- Content repurposing
- Backhaul applications
- HD or SD video via private IP networks
- Electronic News Gathering (ENG)
- School and hotel TV systems

Overview

H.264 is the preferred compression standard for streaming and IPTV. H.264 is preferred by the fastest growing segments of the content distribution landscape.

The Pviper II 2-24ch HDMI/Muxed IP is a multichannel HD audio & video H.264 encoder and multiplexer. It features 8 to 24 HDMI video input interfaces, supporting MPEG-4 video encoding and MPEG 1 Layer 2 audio encoding. This device simultaneously encodes 24 channels of HD audio and video. Moreover, it has two IP output ports that support one MPTS and/or up to 24 SPTS outputs.

Its highly integrated and cost effective design make the Pviper II 2-24ch HDMI/Muxed IP ideal for a variety of digital distribution systems, such as cable TV digital head-end, satellite digital TV broadcasting, etc.

Logo, OSD, and QR Code Insertion

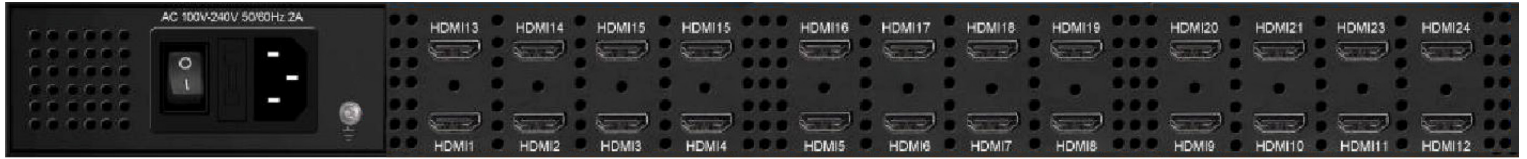


Computer Modules, Inc.
11409 West Bernardo Court
San Diego, CA 92127
Tel: 858-613-1818 Fax: 858-613-1815
www.dveo.com

Panel Controls



Front



Rear

Specifications

Video Input

Up to 24 HDMI inputs

Video

Encoding:	MPEG-4 AVC/H.264
Resolutions:	Inputs: 1920x1080p 60, 1920x1080i 60, 1920x1080p 50, 1920x1080i 50, 1280x720p 60, 1280x720p 50, 720x576i 50, 720x480i 60 Outputs: 1920x1080p 30, 1920x1080p 25, 1280x720p 30, 1280x720p25, 720x576p25, 720x480p 30
Bit Rates:	1 Mbps ~ 13 Mbps each channel
Latency:	750 milliseconds
Rate Control:	CBR/VBR
GOP Structure:	IP...P (P Frame adjustment, without B Frame)

Audio

Encoding:	MPEG-1 Layer II
Sampling Rate:	48 KHz
Resolution:	24 bit
Bit Rates:	64 kbps, 128 Kbps, 192 kbps, 224 kbps, 256 kbps, 320 kbps, 384 kbps

Multiplexing/Re-multiplexing

Maximum PID Remapping:	180 inputs per channel
Functions:	<ul style="list-style-type: none"> • PID re-mapping (automatically or manually) • Accurate PCR adjusting • Automatically generates and regenerates PSI/SI table

Stream Outputs

IP Outputs:	24 SPTS IP outputs and/or one MPTS IP output over UDP/RTP, 1000 Base-T Ethernet interface
ASI:	DVB-ASI output as copy of MPTS

Logo and Text Insertion

Logos:	Add logo files to system memory, select as needed
Text:	Select text and background colors, enter text on screen
Insertion:	Add logos and text for one channel, a single program, or all programs and channels. Drag and drop to position on screen.

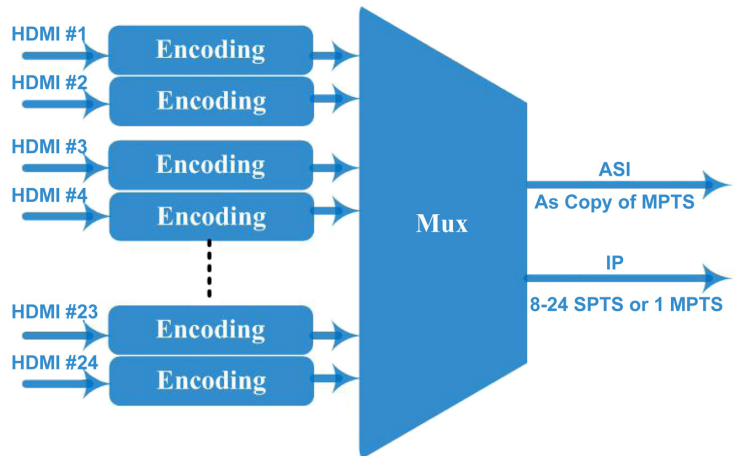
System Functions

Management:	Web-based network management
Language:	English
Upgrades:	Ethernet software upgrades

Physical

Power Supply:	AC 100V±10%, 50/60 Hz; AC 220V±10%, 50/60 Hz
Power Consumption:	70 Watts
Dimensions (WxHxD):	18.98 x 1.73 x 16.15 inches (1 RU) 482 x 44 x 410 millimeters
Weight:	17.64 lbs. (8 kg)
Operating Temperature:	0 to 45°C
Storage Temperature:	-20 to 80°C
Conformities:	FCC, CE, RoHS

Block Diagram



Ordering Info

Pviper II 2-24ch HDMI/Muxed IP – X: Where X is 8, 16, or 24



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