

# Pviper II™ 8ch HDMI/IP

Cost effective multichannel H.264 audio and video encoder and multiplexer with 2 to 8 HDMI inputs. Features up to 8 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: 2 to 8 HDMI inputs
- Outputs: H.264 IP – Up to 8 SPTS outputs or one MPTS output
- IP Output Protocols: UDP, RTP
- ASI output as copy of MPTS
- Supports QR code, Logos, and OSD insertion
- Supports MPEG-4 AVC/H.264 video encoding
- Supports MPEG-1 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. These are the fastest growing segments of the content distribution landscape.

The Pviper II 8ch HDMI/IP is a multichannel HD audio & video H.264 encoder and multiplexer. It features two to 8 HDMI video input interfaces, supporting MPEG-4 video encoding and MPEG 1 Layer 2 audio encoding. This device simultaneously encodes 10 channels of HD audio & video. Moreover, it has two IP output ports that support one MPTS and up to 8 SPTS outputs.

Its highly integrated and cost effective design make the Pviper II 8ch HDMI/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

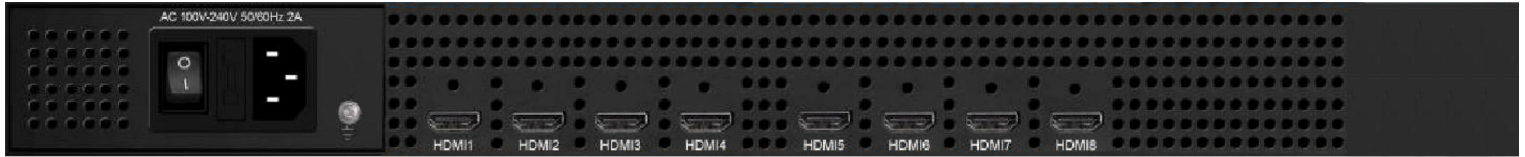
Tel: 858-613-1818 Fax: 858-613-1815

[www.dveo.com](http://www.dveo.com)

# Panel Controls



Front



Rear

## Specifications

### Video Input

Up to 8 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, 1280x720p 25, 720x576p 25, 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"> <li>PID re-mapping (automatically or manually)</li> <li>Accurate PCR adjusting</li> <li>Automatically generates PSI/SI table</li> </ul>

### Stream Outputs

IP Outputs:	8 SPTS IP or one MPTS IP outputs 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.

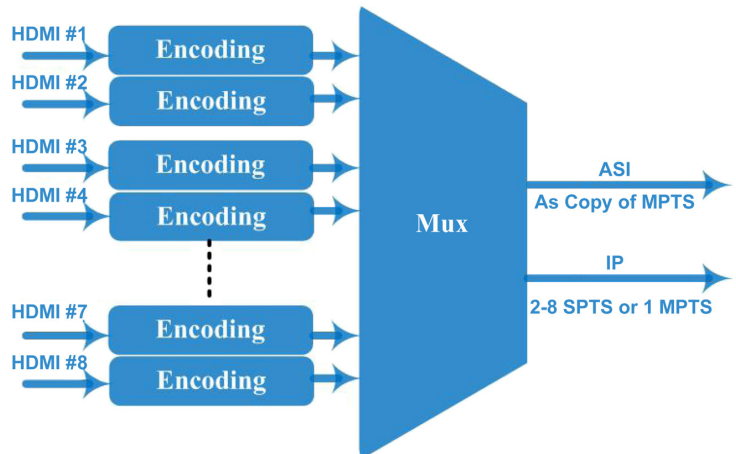
### System Functions

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

Pvipier II 8ch HDMI/IP