

# ZvPro600i Series

Composite/VGA 1080p Encoding/Modulation with IP Streaming

The ZvPro600i series encoder/modulator delivers uncompromising digital HD video distribution over your existing coax cabling from your component or VGA HD sources as well as simultaneous IP streaming with no performance compromise. The ZvPro600i series allows you to easily distribute content up to 1080p resolution to an unlimited number of displays over and RF network, using the TV's built-in QAM tuner, or over an IP network to set-top-boxes connected to displays

Manage ZvPro units can be managed locally through the color LCD screen or via an intuitive web-based, management interface — Maestro. Generate a looping signage channel with ZvShow, deliver messages to any screening using the built-in Emergency Alert System. The ZvPro supports AC-3 audio encoding and the included Closed Captioning makes your installation ADA compliant.



## MODELS:

### ZvPro610i-NA

1 x DIN input for component video/digital and analog audio or VGA video/analog audio up to 1080i/1080p. MPEG-2 QAM RF output.

### ZvPro620i-NA

2 x DIN input for component video/digital and analog audio or VGA video/analog audio up to 1080i/1080p. MPEG-2 QAM RF output.

## Superior Video Quality

- Full MPEG-2 implementation
- I, P, and B Frames
- Low latency
- Full motion estimation with a wide search range

## Extensible Architecture

- Easy downloadable firmware updates
- Future enhancements provided regularly
- Emergency Alert System (EAS)

## High Reliability

- Low-stress power system
- Full system instrumentation and monitoring
- Official international regulatory approval
- Forced air cooling for effective thermal control

## Ease of Management

- Powerful, highly intuitive web interface
- On-site or remote management
- Configure/manage multiple units from
- Front Panel Display for local management

## ZvPro 600 Series Web-based Administration Interface

System	Auto-name	Slot	AV Port	Enabled	RF #	Channel #	Name	Long Name	Rating
1		1	zshow	Enabled	38	38.1	S2840-1	2840-1	TV-G
2		2		Enabled	38	38.2	2840-sh	2840-show	TV-G
3		3		Enabled	39	39.1	2840-2	2840-2	TV-G
4	support_4	4		Enabled	40	40.1	2840-3	2840-3	TV-G
				Enabled	41	41.1	BBCAHD	Planet Earth	TV-G

General		
<b>Power:</b> 100-240 VAC 50/60 Hz, 60W max. 30W Typical IEC 60320-C14	<b>Cooling:</b> Internal cooling fan, front inlet, rear exhaust	<b>Temperature/Humidity:</b> Operating +32 F0 to +113 F0 [0 C0 to +45 C0] / 10% to 80%, non-condensing
	<b>MBTF:</b> 62,000 hours	
<b>Compliance:</b> FCC Class A, IEC60065, EN61000 [see manual 70-00031-00], CE, RoHS, RCM C-Tick	<b>Enclosure Dimensions:</b> 8 in. [H] x 10 in. [W] x 1.75 in. [H] 20.32 cm [H] x 25.4 cm [W] x 4.445 cm [H]	<b>Enclosure Type:</b> Metal
		<b>Shipping Weight:</b> 5 lbs. (2.3 kg)
<b>Mounting:</b> Shelf mount flange or rack ears (ordered separately), 1 RU high	<b>Carton Dimensions (individual):</b> 2.75 in. [H] 14 in. x [W] 12 in. [D] 6.985 cm [H] 35.56 cm [W] x 30.48 cm [D]	<b>Warranty:</b> 5 Years
		<b>Vibration:</b> NSTA 1A in carton
Input		
<b>Component Video x2 or x1:</b> DIN connector HDbridge end, RCA connectors for HD source up to 1080	<b>VGA Resolutions Supported:</b> 640x480, 720x480, 800x600, 1024x768, 1152x864, 1176x664, 1280x720, 1280x768, 1280x800, 1280x960, 1280x1024, 1360x768, 1440x900 at 60 70, 72, 75, 85 Hz. 1680x1050 and 1920x1080 at 60 Hz.	<b>Closed Caption:</b> EIA/CEA-608 captions accepted over composite video input
<b>Computer VGA (Analog) x2 or x1:</b> HD-15 connector, 75 Ohm RGB 0 to 0.7V, separate H and V sync		<b>ZvShow:</b> Extra digital channel, MPEG2 program stream file, up to 200 MB
<b>Stereo Analog and Digital Audio x4 or x2</b>	Line level input per channel DIN connector HDbridge end, RCA connector or digital SPDIF audio input. 3.5 mm pigtail connector with VGA	
Video Encoder		
<b>Encoder Video Profile:</b> MPEG2 HD: ISO13818-2 MainProfile@HighLevel	<b>Traffic Shaping:</b> Variable Bit Rate	<b>Video Encoding Data Rates:</b> Variable, 10 Mbs - 24 Mbs per channel
<b>Average Encoding Data Rate:</b> 18 Mbs per channel	<b>Encoding Latency:</b> Programmable 200 msec to 400 msec	<b>Color Profile:</b> 4:2:0
<b>Encoder Audio Profile:</b> ATSC A/52, [AC-3]	<b>Video, Audio PID:</b> Programmable starting value	<b>Program Information:</b> Programmable program name, EIT
<b>GOP Size:</b> 16		
Modulator/Upverter		
<b>Modulation Types:</b> QAM 256 and 64 [ITU-T J83 Annex B] Interleaving modes: [64,2] only	<b>Cable Standard:</b> HRC, IRC or STD	<b>Frequency Range:</b> Single or one paired, frequency agile QAM RF CATV channels 2-135 • 2kHz resolution • +/- 30 ppm accuracy • +/- 35 ppm stability
<b>Output Power:</b> +45 dBmV typical	<b>Output Level Adjust:</b> 25 - 45 dBmV in 1dBmV steps	
<b>I/Q Amplitude Imbalance:</b> < 1% typical	<b>Spectral Tilt:</b> </= 1 dB over 6 MHz typical	<b>MER :</b> > 38 dB typical
Control Setup		
<b>Network Interface</b>	10/100 Mb Ethernet via RJ45 connection IP address via DHCP or set by user HTML/Javascript served web interface for easy configuration Telnet connection for CLI scripting Easy firmware updates All settings saved in NV storage	
<b>Front Panel Color Display</b>	Quickly obtain status at a glance, basic configurations, software revisions and updates	

ZeeVee, Inc., headquartered in Littleton, Mass., and founded in 2007, is a leading global developer of digital technology and products for distributing audio-video content from any source or multiple sources to any number of displays. Manufactured in the U.S. and used primarily in commercial and corporate applications, ZeeVee products are employed worldwide by major organizations in education, government, hospitality, retail, sports, entertainment, broadcasting, healthcare, housing, energy and other industries. For more information visit [www.zeevee.com](http://www.zeevee.com)