ZeeVee encoder/modulators convert video sources such as satellite receivers and media players into digital cable channels that can be broadcast over existing coaxial cabling to an unlimited number of HDTVs. By utilizing the HDTV's built in tuner, ZeeVee modulators completely replace the need for matrix switches, home run wiring and any devices at individual TVs.

ZvPro 820-EU, ZvPro 810-EU

VIDEO INPUT

HDMI Video (1 or 2 ports per model)	HDMI 1.3 Compliant. Backwards compatible to DVI 1.0 Specifications
Closed Caption	EIA/CEA-608 captions accepted over composite video input

AUDIO INPUT

Analog (1 or 2 ports per model)	75 Ohm 0 to 0.7v at Line-level input. Stereo input on industry standard 3.5mm pigtail connector.
Digital Audio x1 or x2	Digital as element of HDMI 1.3 port
Encoding	Internally encoded into Dolby® Digital AC-3

VIDEO ENCODER

Encoder Video Profile	MPEG2 HD Profile 2: ISO13818-2 MP@HL
Traffic Shaping	Variable Bit Rate
Video Transport Bit Rate	49.76 Mbps
Video Encoding Data Rates	Variable, 10 Mbs – 24 Mbs per channel
Average Encoding Data Rate	18 Mbs per channel
Encoding Latency	Programmable 100 msec to 400 msec
Color Profile	4:02:00
GOP Size	24
Video, Audio PID	Programmable
Program Information	Programmable

AUDIO ENCODER

Encoder Audio Profile	Mpeg 2 layer 1

AUDIO OUTPUT

Analog	75 Ohm 0 to 0.7v at Line-level output. Stereo input on industry standard 3.5mm pigtail connector. Delay range from input approx 0-1.5 seconds, programmable

MODULATOR/UPCONVERTER

Modulation Types	DVB-C: DVB-C, QAM 256 (ITU-T J83 Annex A), Channel Bandwidth 8MHz DVB-T: DVB-T COFDM, Constellation 64QAM, Code Rate 7/8, Guard Interval 1/32, Transmission Code 2K carrier
Cable Standard	User Defined

ZvPro 820-EU, ZvPro 810-EU

Frequency Range	Frequency Agile from 54 to 864MHz 7MHz, 8MHz channel width, Fully user programmable placement 2 kHz resolution +/- 30 ppm accuracy +/- 35 ppm stability
RF Output Level	25dBmV to 45dBmV (85 to 105dBuV)
MER	>39dB typical
I/Q Amplitude Imbalance	< 1% typical
Spectral Tilt	<= 1dB over 8MHz typical

CONTROL/SETUP

Network interface	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
Front Panel Color Display	Quickly obtain status at a glance

GENERAL

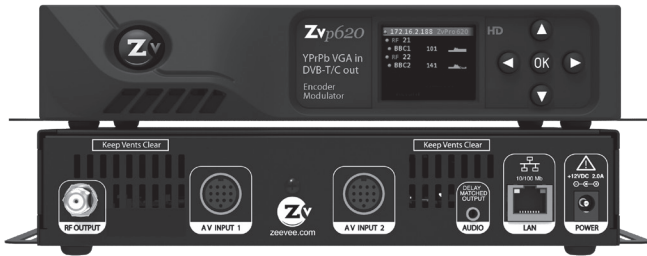|	
Power (base unit)	12VDC, 2.0A Max 1.5A typical
External Power Supply	100-240VAC 50/60Hz, 36W max rated. 18W Typical consumption. IEC 60320-C14
Cooling	Internal cooling fan, Front Inlet, Rear Exhaust
Mounting	Shelf mount flange or rack ears (ordered separately) 1RU high
Enclosure Type	Metal
Enclosure Dimensions	8" x 10" x 1.75"
System Weight	3.1 lbs
Carton Dimensions (individual)	12" x 14" x 2.75"
Shipping Weight	5.0 lbs
Temperature/Humidity	Operating +32F to +113F (0C to +45C) / 10% to 80%, non-condensing
Vibration	NSTA 1A in carton
MTBF	45,000 hours
Compliance	FCC Class A, IEC60065, EN61000 (see manual for specifics), CE, RoHS
Part number	ZvPro 820-EU, ZvPro 810-EU
Model name	ZvPro 820, ZvPro 810
Warranty	2 years

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ZvPro 620-EU, ZvPro 610-EU

VIDEO INPUT

YPrPb or RGB Video (1 or 2 ports per model)	DIN connector HDbridge end, RCA connectors for HD source. Supports 480i60, 480p60, 576i50, 576p50, 720p50, 720p60, 1080i50, 1080i60, 1080p50, 1080p60.
Computer VGA (Analog)	HD-15 connector, 75 Ohm RGB 0 to 0.7V, Separate H and V sync
VGA Resolutions Supported	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. VGA resolutions are broadcast centered in the best vertical fit into 1920x1080p30 or 1280x720p60.
Closed Caption	EIA/CEA-608 captions and Teletext (NABTS, WST) accepted over composite video input

AUDIO INPUT

Analog Audio Input	75 Ohm 0 to 0.7v at Line-level input, RCA R/W Connectors on DIN->RCA Cable, Combined 3.5mm stero connector on DIN-> VGA cable.
Digital Audio	Digital S/PDIF on DIN->RCA Cable (N/A on DIN->VGA cable)
Encoding	Internally encoded MPEG1 Layer2

VIDEO ENCODER

Encoder Video Profile	MPEG2 HD Profile 2: ISO13818-2 MP@HL
Traffic Shaping	Variable Bit Rate
Video Transport Bit Rate	49.76 Mbps
Video Encoding Data Rates	Variable, 10 Mbs – 24 Mbs per channel
Average Encoding Data Rate	18 Mbs per channel
Encoding Latency	Programmable 100 msec to 400 msec
Color Profile	4:02:00
GOP Size	24
Video, Audio PID	Programmable
Program Information	Programmable

AUDIO ENCODER

Encoder Audio Profile	Mpeg 2 layer 1

AUDIO OUTPUT

Analog	75 Ohm 0 to 0.7v at Line-level output. Stereo input on industry standard 3.5mm pigtail connector. Delay range from input approx 0-1.5 seconds, programmable

ZvPro 620-EU, ZvPro 610-EU

MODULATOR/UPCONVERTER

Modulation Types	DVB-C: DVB-C, QAM 256 (ITU-T J83 Annex A), Channel Bandwidth 8MHz DVB-T: DVB-T COFDM, Constellation 64QAM, Code Rate 7/8, Guard Interval 1/32, Transmission Code 2K carrier
Cable Standard	DVB
Frequency Range	Frequency Agile from 54 to 864MHz 7MHz, 8MHz channel width, Fully user programmable placement 2 kHz resolution +/- 30 ppm accuracy +/- 35 ppm stability
RF Output Level	25dBmV to 45dBmV (85 to 105dBuV)
MER	>39dB typical
I/Q Amplitude Imbalance	< 1% typical
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CONTROL/SETUP

Network interface	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
Front Panel Color Display	Quickly obtain status at a glance

GENERAL

Power (base unit)	12VDC, 2.0A Max 1.5A typical
External Power Supply	100-240VAC 50/60Hz, 36W max rated. 18W Typical consumption. IEC 60320-C14
Cooling	Internal cooling fan, Front Inlet, Rear Exhaust
Mounting	Shelf mount flange or rack ears (ordered separately) 1RU high
Enclosure Type	Metal
Enclosure Dimensions	20.32cm x 25.4cm x 4.445cm
System Weight	1.4 kg
Carton Dimensions (individual)	6.985cm x 35.56cm x 30.48cm
Shipping Weight	5.0 lbs
Shipping Weight	2.3kg (5.0 lbs)
Temperature/Humidity	Operating 0C to +45C (+32F to +113F) / 10% to 80%, non-condensing
Vibration	NSTA 1A in carton
MTBF	45,000 hours
Compliance	FCC Class A, IEC60065, EN61000 (see manual for specifics), CE, RoHS
Part number	ZvPro 620-EU, ZvPro 610-EU
Model name	ZvPro 620, ZvPro 610
Warranty	2 years