

# ZvPro 600 Series

Product Number: ZvPro610i-NA

## ZvPro610i-NA

ZvPro610i-NA is an HD video encoder/QAM modulator with one DIN input for Component video/digital and analog audio or VGA video/analog audio up to 1080p. MPEG-2 QAM RF and UDP IP stream output. Delay match analog audio out for analog audio input. Closed Captions supported on composite input. Includes power supply. Hydra cables and Rack Kits are sold separately. No ZvShow. NOTE: These modulators will not work with DirecTV H26K satellite receivers.



## What's in the box?

- ZvPro610i-NA
- Power Supply

### ENTIRE PRODUCT LINE:

ZvPro610-NA	ZvPro620-NA	ZvPro810-NA	ZvPro820-NA
ZvPro610i-NA	ZvPro620i-NA	ZvPro810i-NA	ZvPro820i-NA

### ZVPRO RACK KIT:

ZVPRK

# ZvPro 600 Series

Product Number: ZvPro610i-NA

General Connector		
Power: 100-240 VAC 50/60 Hz, 60W max. 30W Typical IEC 60320-C14	Cooling: Dual internal cooling fans, Front inlet, Rear exhaust MBTF: 62,000 hours	Temperature/Humidity: Operating +32 F0 to +113 F0 (0 C0 to +45 C0) / 10% to 80%, non-condensing
Compliance: FCC Class A, IEC60065, EN61000 (see manual 70-00031-00), CE, RoHS, RCM C-Tick	Enclosure Dimensions: 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)	Enclosure Type: Metal Shipping Weight: 5 lbs. (2.3 kg)
Mounting: The rack ears are sold separately and are not attached.	Carton Dimensions (individual): 2.75 in. (H) 14 in. x (W) 12 in. (D) 6.985 cm (H) 35.56 cm (W) x 30.48 cm (D)	Warranty: 5 Years Vibration: NSTA 1A in carton
Input		
Component Video via RCA R/B/G Hydra cable, Din-to-Mini-Din DirecTV H25 cable, or VGA cable.	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 accepted over composite video input ZvShow: Extra digital channel, MPEG2 program stream file, up to 200 MB
Stereo Analog and Digital Audio x2	Enclosure Dimensions: 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)	Line level input per channel via RCA connectors, Mini-Din, or 3.5mm analog audio pigtail with VGA cable. Digital SPDIF audio input via orange RCA connector.
Video Encoder		
Encoder Video Profile: MPEG2 HD: ISO13818-2 MainProfile@ HighLevel	Traffic Shaping: Variable Bit Rate	Video Encoding Data Rates: Variable, 10 Mbs - 24 Mbs per channel
Average Encoding Data Rate: 18 Mbs per channel	Encoding Latency: Programmable 200 msec to 400 msec	Color Profile: 4:2:0
Encoder Audio Profile: ATSC A/52, (AC-3)	Video, Audio PID: Programmable starting value	Program Information: Programmable program name, EIT
GOP Size: 16		
Modulator/Upverter		
Modulation Types: QAM 256 and 64 (ITU-T J83 Annex B) Interleaving modes: (64,2) only	Cable Standard: HRC, IRC or STD	Frequency Range: Single or one paired, frequency agile QAM RF CATV channels 2-135 • 2kHz resolution • +/- 30 ppm accuracy
Output Power: +45 dBmV typical	Output Level Adjust: 25 - 45 dBmV in 1dBmV steps	
I/Q Amplitude Imbalance: < 1% typical	Spectral Tilt:	MER : > 38 dB typical
Control Setup		
Network Interface	10/100 Mb Ethernet via RJ45 connection. IP address via DHCP(default) or static. Built-in web interface for easy configuration. All settings saved in NV storage.	
Front Panel Color Display	Lets users quickly obtain status at a glance, basic configurations, software revisions, and do updates.	