



ZvPro610-NA



ZvPro610-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 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. NOTE: These modulators will not work with DirecTV H26K satellite receivers

FEATURES

- RF Modulation
- One DIN input
- 1080p
- MPEG2 QAM RF output



TECHNICAL SPECIFICATIONS

General Connector	Power 100–240 VAC 50/60 Hz, 60W max. 30W Typical IEC 60320–C14 Compliance FCC Class A, IEC60065, EN61000 (see manual 70–00031–00), CE, RoHS, RCM C–Tick Mounting The rack ears are sold separately and are not attached Cooling Dual internal cooling fans, Front inlet, Rear exhaust MBTF: 62,000 hours 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) 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) Temperature/Humidity Operating +32 F0 to +113 F0 (0 C0 to +45 C0) / 10% to 80%, non–condensing Enclosure Type Metal Shipping Weight: 5 lbs. (2.3 kg) 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 Stereo Analog and Digital Audio x2 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 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) Closed Caption EIA/CEA–608 captions accepted over composite video input ZvShow Extra digital channel, MPEG2 program stream file, up to 200 MB 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 Average Encoding Data Rate 18 Mbs per channel Encoder Audio Profile ATSC A/52, (AC–3) GOP Size 16 Traffic Shaping Variable Bit Rate Encoding Latency Programmable 200 msec to 400 msec Video, Audio PID Programmable starting value Video Encoding Data Rates Variable, 10 Mbs – 24 Mbs per channel Color Profile 4:2:0 Program Information Programmable program name, EIT

Modulator/Upverter	Modulation Types QAM 256 and 64 (ITU-T J83 Annex B) Interleaving modes: (64,2) only Output Power +45 dBmV typical I/Q Amplitude Imbalance < 1% typical Cable Standard HRC, IRC or STD Output Level Adjust 25 – 45 dBmV in 1dBmV steps Frequency Range Single or one paired, frequency agile QAM RF CATV channels 2–135 • 2kHz resolution • +/- 30 ppm accuracy 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