ZvPro600-NA
HD Digital Encoder / Modulator
Smaller Deployment, Reduced Footprint for Distributing HD Video and Digital Signage

Superior Video Quality
- Full MPEG2 implementation
- I, P, and B Frames
- Low latency
- Full motion estimation with a wide search range

High Reliability
- Low-stress power system
- Full system instrumentation and monitoring
- Official international regulatory approval
- Forced air cooling for thermal control
- 5 Year Warranty

Extensible Architecture
- Easy downloadable firmware updates
- Future enhancements provided regularly
- Emergency Alert System (EAS)
- Bonus information channel for use with video loops

Ease of Management
- Powerful, highly intuitive web interface for instrumentation and control
- On-site or remote management
- Single session configures and manages all connected units
- Front Panel Display for on-site status and management at a glance
- Robust features like set-top-box control, bonus information channel, and delay-matched audio

A Clean Deployment
- HD Satellite Receivers
- Component video and digital audio
- ZvPro620 2 HD Channels Each
- Combiner
- Single coax wire carries all channels
- Unlimited Displays
- Digital Signage Players
- Unencrypted HDMI
- ZvPro820 2 HD Channels
- Front Panel Display for on-site status and management at a glance
- Robust features like set-top-box control, bonus information channel, and delay-matched audio

Easy Setup
Simple Installation
Quick Rollout
It’s Done.

zeevee.com
ZvPro600-NA
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GENERAL
Model Names  ZvPro620 Series ZvPro620 | ZvPro610
Part Numbers  ZvPro620-NA | ZvPro610-NA
Power  100-240 VAC 50/60 Hz, 60W max.  30W Typical IEC 60320-C14
Cooling  Internal cooling fan, front inlet, rear exhaust
Temperature/Humidity  Operating +32 F° to +113 F° (0 C° to +45 C°) / 10% to 80%, non-condensing
Vibration  NSTA 1A in carton
MTBF  62,000 hours
Compliance  FCC Class A, IEC60065, EN61000 (see manual 70-00031-00), CE, RoHS, RCM C-Tick
Enclosure Type  Metal
Mounting  Shelf mount flange or rack ears (ordered separately), 1RU high
Enclosure Dimensions  8 in. (H) x 10 in. (W) x 1.75 in. (H)
System Weight  3.1 lbs. [1.4 kg]
Carton Dimensions (individual)  2.75 in. (H) x 14 in. (W) x 12 in. (D)
Shipping Weight  5 lbs. (2.3 kg)
Warranty  5 years

VIDEO INPUT
Component Video x2 or x1  DIN connector HDbridge end, RCA connectors for HD source up to 1080
Computer VGA (Analog) x2 or x1  HD-15 connector, 75 Ohm RGB 0 to 0.7V, separate H and V sync
VGA Resolutions Supported  640x480, 720x480, 800x600, 1024x768, 1152x864, 1176x864, 1280x720, 1280x768, 1280x800, 1280x900, 1280x1024, 1360x768, 1440x900 at 60 Hz, 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

AUDIO INPUT
Stereo Analog and Digital Audio x4 or x2  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
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
GOP Size  16
Video, Audio PID  Programmable starting value
Program Information  Programmable program name, EIT

AUDIO ENCODER
Encoder Audio Profile  ATSC A/52, Dolby® Digital (AC-3)

MODULATOR / UPCONVERTER
Modulation Types  QAM 256 and 64 (ITU-T J83 Annex B) interleaving modes: (64,2) only
Cable Standard  HRC, IRC or STD
Frequency Range  Up to 2 paired, frequency-agile QAM RF CATV channels 2-135
  • 2 kHz resolution
  • +/- 30 ppm accuracy
  • +/- 35 ppm stability
Output Power  +45 dBmV typical
Output Level Adjust  25 - 45 dBmV in 1dBmV steps
MER  > 38 dB typical
I/Q Amplitude Imbalance  < 1% typical
Spectral Tilt  < 1 dB over 6 MHz typical

CONTROL SET-UP
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
Tether connection for CLI scripting
Easy firmware updates
All settings saved in NV storage
Front Panel Color Display  Quickly obtain status at a glance, basic configurations, firmware revisions and updates