ZvPro800-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

Easy Setup
Simple Installation
Quick Rollout
It’s Done.

zeevee.com
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GENERAL

Model Name  ZvPro Series, ZvPro820 / ZvPro810
Part Number  ZvPro820-NA / ZvPro810-NA
Power  100-240 VAC 50/60 Hz, 36W max.  18W Typical IEC 60320-C14
Cooling  Internal cooling fan, front inlet, rear exhaust
Temperature/Humidity  Operating +32 F0 to +113 F0 (0 C0 to +45 C0) / 10% to 80%, non-condensing
Vibration  NSTA 1A in carton
MTBF  62,000 hours
Compliance  FCC Class A, IEC60065, EN61000 (see Manual #70-00047), CE, RoHS
Enclosure Type  Metal
Mounting  Shelf mount flange or rack ears (ordered separately), 1 RU 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) 14 in. x (W) 12 in. (D)
Shipping Weight  5 lbs. (2.3 kg)
Warranty  5 years

VIDEO INPUT

Unencrypted HDMI x2 or x1  One (1) or two (2) ports per model up to 1080
HDMI1.3 compliant. Backwards compatible to DVI 1.0 specifications
Closed Caption  EIA/CEA-608 captions accepted over composite video input
Extra Digital Channel  MPEG2 program stream file, up to 200 MB

AUDIO INPUT

Digital Audio and Stereo Analog  Digital as element of HDMI 1.3 port or 3.5 mm stereo female, line level input per channel

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  15
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  Single or one paired, frequency agile OAM RF CATV channels 2-135
• 24Hz 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/O 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
Telnet 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, software revisions and updates

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Accessories  Rackmount kit and HDMI cables are sold separately.