HD Video and Digital Signage Over Coax
With Simultaneous Video-over-IP Streaming

Superior Video Quality
• Simultaneous QAM/IP stream output with no compromise in performance
• Full MPEG2 implementation
• I, P, and B Frames
• Low latency
• Full motion estimation with a wide search range

Extensible Architecture
• Easy downloadable firmware updates
• Future enhancements provided regularly
• Emergency Alert System (EAS)
• ZvShow bonus information channel with extended play capability via SD card input suitable for continuous looped messages

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

Ease of Management
• Powerful, highly intuitive web interface for instrumentation and control
• On-site or remote management
• Front Panel Display for on-site status and management at a glance
• Robust features like set-top-box control and delay-matched audio

Flexible Simultaneous QAM/IP Deployment

Simple Installation
Easy Setup
Quick Rollout
It’s Done.
ZvPro800i-NA
HD Digital Encoder / Modulator

GENERAL

Model Name
ZvPro I-Series, ZvPro820i / ZvPro810i

Part Number
ZvPro820i-NA / ZvPro810i-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 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 #70-00047), 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)
20.32 cm (H) x 25.4 cm (W) x 4.445 cm (H)

System Weight
3.1 lbs. (1.4 kg)

Carton Dimensions (individual)
2.75 in. (H) 14 in. (W) 12 in. (D)
6.985 cm (H) 35.56 cm (W) x 30.48 cm (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
HDMI 1.3 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 QAM RF CATV channels 2-135
- 2kHz 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

IP STREAM OUTPUT

Stream Details
RJ-45 10/100Mb Ethernet connection
- Up to 2 SPTS, one for each encoded video stream
- UDP unicast or multicast, IPv4
- User programmable destination address / part

CONTROL SET-UP

Network Interface
10/100 Mb Ethernet via RJ45 connection
IP address via DHCP or set by user
HTTP/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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