ZvPro800i Series
1080p Unencrypted HDMI Encoder / Modulator with IP Streaming

OVERVIEW
ZvPro810i delivers uncompromising digital HD video distribution over your existing coax cabling from HDMI sources, as well as providing simultaneous IP streaming with no performance compromise. This one channel QAM, MPEG2, Encoder/Modulator unit allows you to easily distribute content up to 1080p resolution to an unlimited number of displays over RF network, using the TV’s built-in QAM tuner, or over an IP network to set-topboxes connected to displays.

Manage ZvPro units can be managed locally through the color LCD screen or via an intuitive web-based, management interface — Maestro. Generate a looping signage channel with ZvShow, deliver messages to any screening using the built-in Emergency Alert System.

SUPERIOR VIDEO QUALITY
• Full MPEG-2 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)

The ZvPro supports audio encoding and the included Closed Captioning makes your installation ADA compliant.

MODELS:

ZvPro810i-EU
1 x unencrypted HDMI video input up to 1080i/1080p. MPEG2 DVB-T/C RF and UDP IP stream output.

ZvPro820i-EU
2x unencrypted HDMI video input up to 1080i/1080p. MPEG2 DVB-T/C RF and UDP IP stream output.

HIGH RELIABILITY
• Low-stress power system
• Full system instrumentation and monitoring
• Official international regulatory approval
• Forced air cooling for effective thermal control

EASE OF MANAGEMENT
• Powerful, highly intuitive web interface
• On-site or remote management
• Configure/manage multiple units from front Panel Display for local management
### General

<table>
<thead>
<tr>
<th>Power: 100–240 VAC 50/60 Hz, 36W max. 18W Typical IEC 60320–C14</th>
<th>Cooling:</th>
<th>Internal cooling fan, front inlet, rear exhaust</th>
<th>Temperature/Humidity: Operating +32°F to +113°F (0°C to +5°C) / 10% to 80%, non-condensing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliance: FCC Class A, IEC60065, EN61000 (see manual #70–00047), CE, RoHS</td>
<td>System Weight: 3.1 lbs. (1.4 kg)</td>
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<tr>
<td>Mounting: Shelf mount flange or rack ears (ordered separately), 1 RU high</td>
<td>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)</td>
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<td>Enclosure Type: Metal</td>
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<td>Shipping Weight: 5 lbs. (2.3 kg)</td>
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<td>Carton Dimensions (individual): 2.75 in. (H) 14 in. (W) 12 in. (D) 6.985 cm (H) 35.56 cm (W) 30.48 cm (D)</td>
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<td>Warranty: 5 Years</td>
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<td>Vibration: NSTA 1A in carton</td>
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### Input

- **Unencrypted HDMI x2 or x1:** One (1) or two (2) ports per model up to 1080HDMI 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: ISO13818-1 MainProfile@HighLevel
- **Encoder Audio Profile:** ATSC A/52, (AC-3)
- **Video PID:** Programmable starting value
- **Color Profile:** 4:2:0
- **Audio PID:** Programmable
- **Program Information:** Programmable program name, EIT
- **GOP Size:** 15
- **Video Encoding Data Rates:** Variable, 10 Mbs - 24 Mbs per channel
- **Encoding Latency:** Programmable 200 msec to 400 msec
- **Traffic Shaping:** Variable Bit Rate
- **Modulator/Upverter**
  - **Modulation Types:** QAM 256 and 64 (ITU-TJ83 Annex B) Interleaving modes: (64,2) only
  - **Output Power:** +45 dBmV typical
  - **Output Level Adjust:** 25 - 45 dBmV in 1dBmV steps
  - **I/Q Amplitude Imbalance:** < 1% typical
  - **Spectral Tilt:** < = 1 dB over 6 MHz typical
  - **MER:** > 38 dB typical
  - **Frequency Range:** Single or one paired, frequency agile QAM RF CATV channels 2-135
    - 2kHz resolution
    - +/- 30 ppm accuracy
    - +/- 35 ppm stability
  - **Cable Standard:** HRC, IRC or STD
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### Control Setup

- **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

### About ZeeVee

ZeeVee is a leading provider of AV distribution technology. The company has transformed the digital video industry with its award-winning encoders, decoders and software solutions for the pro AV and IT marketplace. Integrators and consultants rely on ZeeVee for its innovative, cost-effective and easy to install AVoIP and RF distribution platforms for their corporate, higher education, government, healthcare, casino, museum, hospitality and retail customers. A founding member of the SDVoE Alliance and a PSNI Global Alliance Preferred Vendor Partner, ZeeVee holds a GSA schedule, and its products are TAA-compliant. ZeeVee is headquartered in the greater Boston area with European HQ in Augsburg, Germany and SE Asian offices in Singapore. For more information visit [www.zeevee.com](http://www.zeevee.com) ZeeVee products are TAA Compliant. ZeeVee holds GSA Contract # 47QTC19D00JZ.