HDb2600 Series
Scalable 1080p Encoder/ RF Modulator

For organizations looking for cost-effective HD encoding the HDBridge 2600 Series is the perfect fit. Choose from two or four channels models that allow you to deliver HD video up to 1080p resolution to an unlimited number of displays over almost any distance.

The HDbridge 2600 series converts high definition AV sources into an RF signal received a television’s QAM (NA model) or DVB-T/C (EU model) digital tuner over coax cable. With its high 45 dBm RF output, you can send your content to an unlimited number of displays over nearly any distance. Multiple units can be combined to create a headend that supports over 100 channels on the RF network. This unit is designed primarily for high channel density environments where rapid deployment, advanced management, and compatibility are critical.

MODELS:

HDb2620-EU: 2 DIN inputs for up to 1080p component/VGA video
HDb2640-EU: 4 DIN inputs for up to 1080p component/VGA video

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]

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
ZeeVee, Inc., headquartered in Littleton, Mass., and founded in 2007, is a leading global developer of digital technology and products for distributing audio-video content from any source or multiple sources to any number of displays. Manufactured in the U.S. and used primarily in commercial and corporate applications, ZeeVee products are employed worldwide by major organizations in education, government, hospitality, retail, sports, entertainment, broadcasting, healthcare, housing, energy and other industries. For more information visit [www.zeevee.com](http://www.zeevee.com)

### General

| Power: 100–240 VAC 50/60 Hz, 60W max. 30W Typical IEC 60320-C14 | Cooling: Dual internal cooling fans, Front inlet, Rear exhaust | Temperature/Humidity: Operating 0 C to +45 C (+32 F to +113 F) / 10% to 80%, non-condensing |
| MBTF: 62,000 hours | Enclosure Dimensions: 436 mm [H] x 440.2 mm [W] x 251.5 mm [D] | Enclosure Type: Metal |
| Compliance: FCC Class A, IEC60065, EN61000 (see manual 70-00031-00), CE, RoHS, RCM C-Tick | System Weight: 2.84 kg [6.25 lbs.] | Shipping Weight: 3.58 kg [7.88 lbs.] |
| Mounting: Rack ears shipped attached, 1RU high | Carton Dimensions [individual]: 42.5 in. [H] 30.875 in. W 12.125 in [D] 108 mm [H] 785 [mm] W 308 [mm] [D] | Warranty: 5 Years |
| Vibration: NSTA 1A in carton |

### Input

**Component Video x4 or x2:** DIN connector HDbridge end, RCA connectors for HD source up to 1080p

**Computer VGA [Analog] x4 or x2:** HD-15 connector, 75 Ohm RGB 0 to 0.7V, Separate H and V sync

**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

**Encoder Audio Profile:** ATSC A/52, Dolby® Digital [AC-3]

**Video, Audio PID:** Programmable starting value

**Program Information:** Programmable program name, eIT

**GOP Size:** 16

### Modulator/Upverter

**Modulation Types:** DVB-T, DVB-C [ITU-T J83 Annex A] [varies by region]

**Cable Standard:** User defined [varies by region], CCIR

**Frequency Range:** Up to 4 paired frequency-agile CCIR Channels 21-79, 57 MHz - 900 MHZ

- 2 kHz resolution
- +/- 30 ppm accuracy
- +/- 35 ppm stability

**Output Power:** +45 dBmV typical

**Output Level Adjust:** 25 - 45 dBmV in 10dBmV steps

**I/Q Amplitude Imbalance:** < 1% typical

**Spectral Tilt:** < = 1 dB over 6 MHz typical

**MER:** > 38 dB typical

### 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