

HDb2500 Series

Scalable 720p Encoder/ RF Modulator



For organizations looking for cost-effective HD encoding the HDBridge 2500 Series is the perfect fit. Choose from two or four channels models that allow you to deliver HD video up to 720p resolution to an unlimited number of displays over almost any distance.

The HDBridge 2500 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 dBmV RF output, you can send your content to an unlimited number of displays over nearly any distance.

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)

HDb2520-NA

2 DIN inputs for up to 720p component/VGA video

HDb2540-NA

4 DIN inputs for up to 720p component/VGA video

HDb2520-DT*

2 DIN inputs for up to 720p component/VGA video

HDb2540-DT*

4 DIN inputs for up to 720p component/VGA video

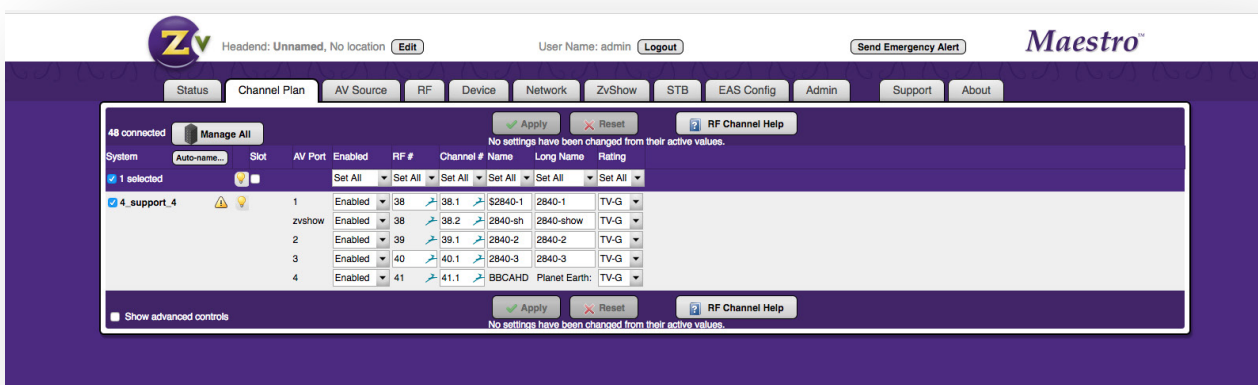
* Includes 4 3-foot DIN to Mini-DIN cables for use with DirecTV H25 receivers, rack ears and power cord. 6-foot DIN to Mini-DIN and VGA cables sold separately.

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



HDb2500 Series Web-based Administration Interface

General

Power: 100-240 VAC 50/60 Hz, 60W max. 30W Typical IEC 60320-C14	Cooling: Dual internal cooling fans, Front inlet, Rear exhaust MBTF: 62,000 hours	Temperature/Humidity: Operating +32 F ⁰ to +113 F ⁰ (0 C ⁰ to +45 C ⁰) / 10% to 80%, non-condensing
Compliance: FCC Class A, IEC60065, EN61000 (see manual 70-00031-00), CE, RoHS, RCM C-Tick	Enclosure Dimensions: 1.72 in. (H) x 17.33 in. (W) (without rack mount ears) x 9.9 in. (D) 43.6 mm (H) x 440.2 mm (W) x 251.5 mm (D)	Enclosure Type: Metal Shipping Weight: 7.88 lbs. (3.58 kg) 3.58 kg (7.88 lbs.)
Mounting: Rack ears shipped attached, 1RU high	Carton Dimensions (individual): 4.25 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 720p	VGA Resolutions Supported: 640x480, 720x480, 800x600, 1024x768, 1152x864, 1176x664, 1280x720, 1280x768, 1280x800, 1280x960, 1280x1024, 1360x768, 1440x900 at 60 70, 72, 75, 85 Hz.	Closed Caption: EIA/CEA-608 captions accepted over composite video input Extra Digital Channel: MPEG2 Program stream file, up to 200 MB
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, (AC-3)	Video, Audio PID: Programmable starting value	Program Information: Programmable program name, EIT
GOP Size: 16		

Modulator/Upverter

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
Output Power: +45 dBmV typical	Output Level Adjust: 25 - 45 dBmV in 1dBmV steps	<ul style="list-style-type: none"> • 2kHz resolution • +/- 30 ppm accuracy • +/- 35 ppm stability
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

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