

## 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 dBmV 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

### HDb2600 Series Web-based Administration Interface

The screenshot displays the Maestro web-based administration interface. At the top, there is a navigation menu with tabs: Status, Channel Plan, AV Source, RF, Device, Network, ZvShow, STB, EAS Config, Admin, Support, and About. The main content area shows a table of channel configurations. The table has columns for System, Slot, AV Port, Enabled, RF #, Channel #, Name, Long Name, and Rating. The table contains 4 rows of data, with the first row selected. The interface also includes a 'Manage All' button, 'Apply' and 'Reset' buttons, and a 'Send Emergency Alert' button.

System	Slot	AV Port	Enabled	RF #	Channel #	Name	Long Name	Rating
4_support_4	1	zvshow	Enabled	38	38.1	2840-1	2840-1	TV-G
	2		Enabled	38	38.2	2840-sh	2840-show	TV-G
	3		Enabled	39	39.1	2840-2	2840-2	TV-G
	4		Enabled	40	40.1	2840-3	2840-3	TV-G
			Enabled	41	41.1	BBCAHD	Planet Earth	TV-G

General		
<b>Power:</b> 100-240 VAC 50/60 Hz, 60W max. 30W Typical IEC 60320-C14	<b>Cooling:</b> Dual internal cooling fans, Front inlet, Rear exhaust	<b>Temperature/Humidity:</b> Operating 0 C0 to +45 C0 [+32 F0 to +113 F0] / 10% to 80%, non-condensing
<b>MBTF:</b> 62,000 hours		<b>Enclosure Type:</b> Metal
<b>Compliance:</b> FCC Class A, IEC60065, EN61000 (see manual 70-00031-00), CE, RoHS, RCM C-Tick	<b>Enclosure Dimensions:</b> 43.6 mm [H] x 440.2 mm [W] x 251.5 mm [D] 1.72 in. [H] x 17.33 in. [W] [without rack mount ears] x 9.9 in. [D]	<b>System Weight:</b> 2.84 kg [6.25 lbs.]
<b>Mounting:</b> Rack ears shipped attached, 1RU high	<b>Carton Dimensions (individual):</b> 4.25 in. [H] 30.875 in. W 12.125 in [D] 108 mm [H] 785 [mm] W 308 [mm] [D]	<b>Shipping Weight:</b> 3.58 kg [7.88 lbs.]
		<b>Warranty:</b> 5 Years
		<b>Vibration:</b> NSTA 1A in carton
Input		
<b>Component Video x4 or x2:</b> DIN connector HDbridge end, RCA connectors for HD source up to 1080p	<b>VGA Resolutions Supported:</b> 640x480, 720x480, 800x600, 1024x768, 1152x864, 1176x664, 1280x720,1280x768, 1280x800, 1280x960, 1280x1024, 1360x768, 1440x900 at 60 70, 72, 75, 85 Hz. 1680x1050 and 1920x1080 at 60 Hz.	<b>Closed Caption:</b> EIA/CEA-608 captions accepted over composite video input
<b>Computer VGA (Analog) x4 or x2:</b> HD-15 connector, 75 Ohm RGB 0 to 0.7V, Separate H and V sync		<b>Extra Digital Channel:</b> MPEG2 Program stream file, up to 200 MB
<b>Stereo Analog and Digital Audio x4 or x2</b>	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		
<b>Encoder Video Profile:</b> MPEG2 HD: ISO13818-2 MainProfile@ HighLevel	<b>Traffic Shaping:</b> Variable Bit Rate	<b>Video Encoding Data Rates:</b> Variable, 10 Mbs - 24 Mbs per channel
<b>Average Encoding Data Rate:</b> 18 Mbs per channel	<b>Encoding Latency:</b> Programmable 200 msec to 400 msec	<b>Color Profile:</b> 4:2:0
<b>Encoder Audio Profile:</b> ATSC A/52, Dolby@ Digital (AC-3)	<b>Video, Audio PID:</b> Programmable starting value	<b>Program Information:</b> Programmable program name, EIT
<b>GOP Size:</b> 16		
Modulator/Upverter		
<b>Modulation Types:</b> DVB-T, DVB-C (ITU-T J83 Annex A) (varies by region)	<b>Cable Standard:</b> User defined (varies by region), CCIR	<b>Frequency Range:</b> Up to 4 paired frequency-agile CCIR Channels 21-79, 57 MHz - 900 MHz
<b>Output Power:</b> +45 dBmV typical	<b>Output Level Adjust:</b> 25 - 45 dBmV in 1dBmV steps	<ul style="list-style-type: none"> <li>• 2 kHz resolution</li> <li>• +/- 30 ppm accuracy</li> <li>• +/- 35 ppm stability</li> </ul>
<b>I/Q Amplitude Imbalance:</b> < 1% typical	<b>Spectral Tilt:</b> </= 1 dB over 6 MHz typical	<b>MER :</b> > 38 dB typical
Control Setup		
<b>Network Interface</b>	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	
<b>Front Panel Color Display</b>	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](http://www.zeevee.com)