



HDb2312-NA

Digital Encoder / Modulator

Perfect for distributing television programming or usergenerated content to small displays that can't take full advantage of HD. The HDbridge 2300 series converts standard 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. You can change sources on any screen by merely changing the channel on the TV. The HDBridge 2300 series is ideal for organizations looking for an affordable way to support a large number of displays with dynamic content such as sports bars, gyms, or schools. Multiple units can be combined to create a headend that will support 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.

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

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HDb2312-NA Web-based Adminstration 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	Temperature/Humidity: Operating +32 Fo to +113 Fo (0 Co to +45 Co) / 10% to 80%, non-condensing					
	MBTF: 62,000 hours	_					
Compliance: FCC Class A, IEC60065,	Enclosure Dimensions: 1.72 in. (H) x 17.33 in.	Enclosure Type: Metal					
EN61000 (see manual 70-00031-00), CE, RoHS, RCM C-Tick	(W) (without rack mount ears) x 9.9 in. (D) 43.6 mm (H) x 440.2 mm (W) x 251.5 mm	System Weight: 6.25 lbs. (2.84 kg))					
	(D)	Shipping Weight: 7.88 lbs. (3.58 kg)					
Mounting: Rack ears shipped attached, 1RU	Carton Dimensions (individual): 4.25 in. (H)	Warranty: 5 Years					
high	30.875 in. W 12.125 in (D) 108 mm (H) 785 (mm) W 308 (mm) D	Vibration: NSTA 1A in carton					
Input							
Composite Video x12 RCA connector, 75 Ohm 0 to 0.7v, 480i input 59.94 fields per second and 576i input 50 fields per second	Computer VGA (Analog) x4 or x2: HD-15 connector, 75 Ohm RGB 0 to 0.7V, Separate H and V sync	Stereo Audio Input x12 RCA connector, 75 Ohm 0 to 0.7v, 480i inpu 59.94 fields per second and 576i input 50 fields per second					
Video Encoder							
Encoder Video Profile: MPEG2 HD: ISO13818-2 MainProfile@ HighLevel	Traffic Shaping: Variable Bit Rate	Video Encoding Data Rates: Variable, 2 Mb - 12 Mbs per channel					
Average Encoding Data Rate: 10-12 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 pro- gram name, EIT					
GOP Size: 15							
Modulator/Upverter							
Modulation Types: QAM 256 only (ITU-T J83 Annex B) Inter- leaving modes: (64,2) only	Cable Standard: User defined (varies by region), CCIR	Frequency Range: 4 paired, frequency agile QAM RF CATV Channels 2-135 • 2kHz resolution					
Output Power: +45 dBmV typical	Output Level Adjust: 25 - 45 dBmV in 1dBmV steps	 +/- 30 ppm accuracy +/- 35 ppm stability 					
I/Q Amplitude Imbalance: < 1% typical	Spectral Tilt: = 1 dB over 6 MHz typical</td <td colspan="4">MER : > 38 dB typical</td>	MER : > 38 dB typical					
Control Setup		1					
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**

