

# HDbridge Series

Product Number: HDb2312-NA

## HDbridge 2312-NA

HDb2312-NA is an SD video encoder/QAM modulator with 12 composite video/analog 3.5mm audio inputs, MPEG-2 QAM RF output via 12 digital channels using 4 QAM RF frequencies. One delay matched analog audio output. Supports Closed Captions. Rack ears and power cord included. No ZvShow.



Color LED  
Screen

Directional  
Controls



Coax Output

AV Ports

10/100  
LAN Ports

Analog  
Audio  
Output

AC Power  
Input

## What's in the box?

- HDb2312-NA
- Rack Ears
- Power Cord

## ENTIRE PRODUCT LINE:

HDb2312-NA

HDb2520-DT

HDb2620-NA

HDb2640-EU

HDb2920-NA

HDb2312-EU

HDb2540-NA

HDb2620-EU

HDb2640-DT

HDb2920i-NA

HDb2520-NA

HDb2540-EU

HDb2620-DT

HDb2840-NA

HDb2520-EU

HDb2540-DT

HDb2640-NA

HDb2840-EU

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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 to +113°F (0°C to +45°C) / 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: NISTA 1A in carton
Input		
Composite Video x12: RCA connector, 75 Ohm 0 to 0.7v, 480i input 59.94 fields per second	Closed Caption: EIA/CEA-608 captions accepted over composite video input	Stereo Audio Input x12: 3.5 mm stereo female, line level input per channel
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 <ul style="list-style-type: none"> <li>• 2kHz resolution</li> <li>• +/- 30 ppm accuracy</li> <li>• +/- 35 ppm stability</li> </ul>
Output Power: +45 dBmV typical	Output Level Adjust: 25 - 45 dBmV in 1dBmV steps	
I/Q Amplitude Imbalance: < 1% typical	I/Q Amplitude Imbalance: < 1% typical	MER : > 38 dB typical
Simple Setup		
Network Interface	10/100 Mb Ethernet via RJ45 connection IP address displayed on the front panel Set IP via DHCP (default) or static Browser-based interface for quick and easy configuration Easy firmware updates All settings are persistent	
Front Panel Color Display	Quickly obtain status, basic configurations, software revisions, and perform updates	