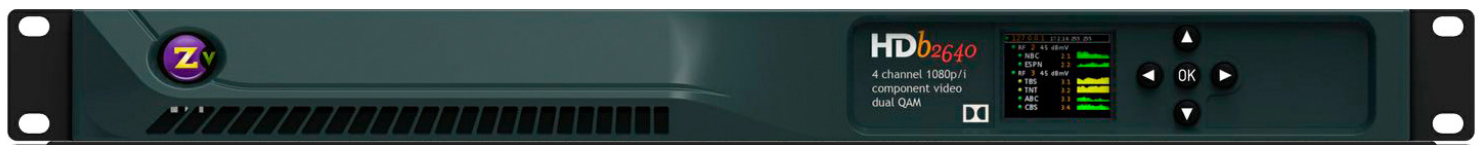


# HDbridge Series

Product Number: HDb2640-NA

## HDbridge 2640-NA

HDb2640-NA is an HD video encoder/QAM modulator with four DIN inputs for up to 1080p Component video/digital and analog audio or VGA video/analog audio. MPEG-2 QAM RF output. Closed Captions supported on composite input. Includes four Hydra 3-foot component breakout cables, rack ears, and a power cord. VGA cables are sold separately. NOTE: These modulators will not work with DirecTV H26K satellite receivers.



Color LED Screen  
Directional Controls



Coax Output  
AV Ports  
10/100 LAN Ports  
AC Power Input

## What's in the box?

- HDb2640-NA
- Four 3-Foot Component Breakout (Hydra) Cables
- Rack Ears
- Power Cord

# HDbridge Series

Product Number: HDb2640-NA

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 F0 to +113 F0 (0 C0 to +45 C0) / 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: DIN connector HDbridge end, RCA connectors for HD source up to 720p	VGA Resolutions Supported: 640x480      1176x664 720x480      1280x720 800x600      1280x768 1024x768     1280x800 1152x864     1280x960	Closed Caption: EIA/CEA-608 captions accepted over composite video input  Extra Digital Channel: MPEG2 Program stream file, up to 200 MB
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
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	

## ENTIRE PRODUCT LINE:

HDb2312-NA  
HDb2520-DT

HDb2520-NA  
HDb2540-NA

HDb2620-DT  
HDb2640-DT

HDb2640-NA  
HDb2840-NA

HDb2920-NA  
HDb2920i-NA