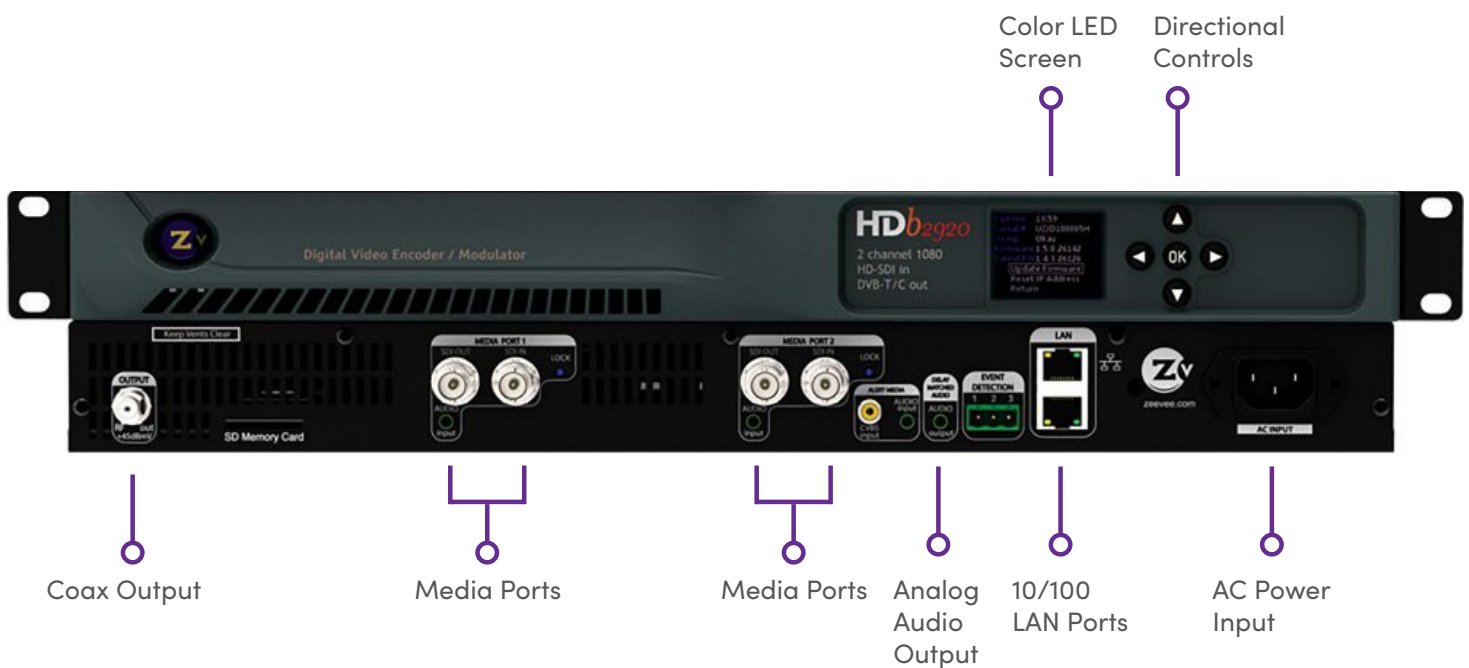


# HDbridge Series

Product Number: HDb2920-NA

## HDbridge 2920-NA

HDb2920-NA is an HD video encoder/QAM modulator with 2 HDSDI video inputs with embedded digital audio inputs up to 1080i/1080p with loop through output. Also supports analog audio input for each video input. MPEG-2 QAM RF output. One delay matched analog audio output. Rack ears and power cord included. Cables sold separately.



## What's in the box?

- HDb2920-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	

# HDbridge Series

Product Number: HDb2920-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°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: NSTA 1A in carton
Input		
Serial Digital Interface	Supported Resolutions	Loop Through
Two ports of (HD/3G) Serial Digital Interface video (BNC, 75 ohm)	480i (SDI, HD-SDI, 3G-SDI) B27; 720p @ 59.94/60 Hz (HD-SDI, 3G-SDI); 1080i @ 59.94/60 Hz (HD-SDI, 3G-SDI); 1080p @ 23.98/24/29.97/30 Hz	Each SDI port has a reclocked, amplified loop-through output
SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M)	(3G-SDI), Embedded AC3 or PCM audio supported (59.94/60 down-sampled for standard broadcast)	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
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	