Simultaneously encodes two HD-SDI sources directly into an MPEG-2 IP network video stream as well as private RF channels that can be received by an unlimited number of HDTV displays.

For organizations looking to encode and modulate unencrypted HDMI sources cost-effectively, the HDBridge 2900 Series is a great option. This four channel encoder/modulator allows you to deliver HD video up to 1080p/i resolution to an unlimited number of displays over almost any distance.

The HDbridge 2900 series converts high definition AV sources into an RF signal received a television’s QAM 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.

MODELS:

HDb2920i-NA
2 HD-SDI video inputs with embedded digital audio inputs up to 1080i/1080p

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
### Encoder Video Profile:
- **MPEG2 HD**: ISO/IEC 13818-2 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
- **Color Profile**: 4:2:0
- **GOP Size**: 15
- **Video, Audio PID**: Programmable starting value
- **Program Information**: Programmable program name, EIT

### Modulation Types:
- QAM 256 and 64 (ITU-T J83 Annex B)
- Interleaving modes: (64,2) only

### Frequency Range:
- 4 paired, frequency agile QAM RF CATV Channels 2-135
- +/− 30 ppm accuracy
- +/− 35 ppm stability

### Cable Standard:
- HRC, IRC or STD

#### Output Power:
- +45 dBmV typical

#### Output Level Adjust:
- 25 - 45 dBmV in 1dBmV steps

#### I/Q Amplitude Imbalance:
- < 1% typical

#### Spectral Tilt:
- < = 1 dB over 6 MHz 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

### General
- **Power**: 100–240 VAC 50/60 Hz, 60W max. 30W
- **Typical IEC 60320-C14
- **Compliance**: FCC Class A, IEC60065, EN61000 (see manual 70-00031-00), CE, RoHS, C-C-Tick
- **MBT**: 62,000 hours
- **Temperature/Humidity**: Operating +32°F to +113°F (0°C to +45°C) / 10% to 80%, non-condensing
- **Enclosure Dimensions**: 1.72 in. (H) x 17.33 in. (W) (without rack mount ears) x 9.9 in. (D).
- **Shipping Weight**: 6.5 lbs. (2.95 kg)
- **Shipping Weight**: 8.13 lbs. (3.69 kg)
- **Warranty**: 5 Years
- **Vibration**: NSTA 1A in carton

### About ZeeVee
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)

ZeeVee products are TAA Compliant. ZeeVee holds GSA Contract # 47QTCA19D007Z.

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