



Assisted Living



Health Care



RV Parks & Campgrounds

HDb2312-NA

Digital Encoder / Modulator

Headend Ready for High Density Distribution of Video and Digital Signage

Superior Video Quality

- Full MPEG2 implementation
- I, P, and B Frames
- Low latency
- Full motion estimation with a wide search range

High Reliability

- Low-stress power system
- Full system instrumentation and monitoring
- Official international regulatory approval
- Forced air cooling for effective thermal control

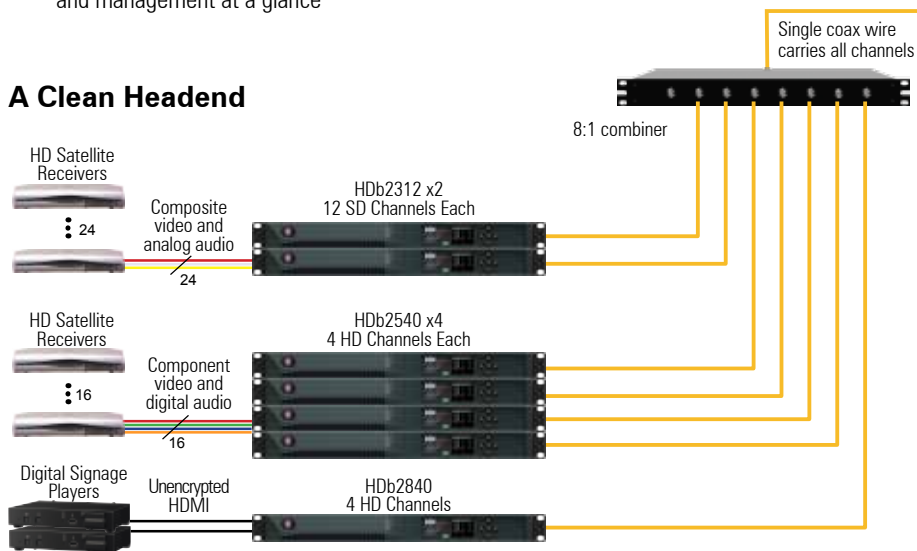
Ease of Management

- Powerful, highly intuitive web interface
- On-site or remote management
- Web accessible instrumentation and management
- Single session configures and manages all connected units
- Front Panel Display for on-site status and management at a glance

Extensible Architecture

- Easy downloadable firmware updates
- Future enhancements provided regularly
- Emergency Alert System (EAS)

A Clean Headend



HDbridge2000
SERIES

Easy Setup

Simple Installation

Quick Rollout

It's Done.



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HDbridge2000
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HDb2312 Rear Detail



HDb2312 Front Detail



ZvSync

ZvSync is a digital cable tuner with HDMI, composite, and analog RF outputs. Available in both DVB-T and QAM.

It's small, affordable, and can be used for:

- Projectors
- TVs Without Tuners
- Monitors



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| GENERAL | |
|---------------------------------------|---|
| Model Name | HDbridge Series 2000, HDb2312 |
| Part Number | HDb2312-NA |
| 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 F° to +113 F° (0 C° to +45 C°) / 10% to 80%, non-condensing |
| Vibration | NSTA 1A in carton |
| MTBF | 62,000 hours |
| Compliance | FCC Class A, IEC60065, EN61000 (see manual 70-00039), CE, RoHS, RCM C-Tick |
| Enclosure Type | Metal |
| Mounting | Rack ears shipped attached, 1RU high |
| 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) |
| System Weight | 6.25 lbs. (2.84 kg) |
| Carton Dimensions (individual) | 4.25 in. (H) 30.875 in. W 12.125 in (D) 108 mm (H) 785 (mm) W 308 (mm) D |
| Shipping Weight | 7.88 lbs. (3.58 kg) |
| Warranty | 5 years |
| VIDEO 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 (HDb2312-NA Only) |
| AUDIO INPUT | |
| Stereo Audio Input x12 | 3.5 mm stereo female, line level input per channel |
| VIDEO ENCODER | |
| Encoder Video Profile | MPEG2 SD: ISO13818-2 Main Profile @ Main Level |
| Traffic Shaping | Variable Bit Rate |
| Video Encoding Data Rates | Variable, 2 Mbs - 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 |
| GOP Size | 15 |
| Video, Audio PID | Programmable starting valve |
| Program Information | Programmable program name, EIT |
| AUDIO ENCODER | |
| Encoder Audio Profile | ATSC A/52, Dolby®Digital (AC-3) |
| MODULATOR / UPCONVERTER | |
| Modulation Types | QAM 256 only (ITU-T J83 Annex B) Interleaving modes: (64,2) only |
| Cable Standard | HRC, IRC or STD |
| Frequency Range | 4 paired, frequency agile QAM RF CATV Channels 2-135 <ul style="list-style-type: none"> • 2kHz resolution • +/- 30 ppm accuracy • +/- 35 ppm stability |
| Output Power | +45 dBmV typical |
| Output Level Adjust | 25 - 45 dBmV in 1dBmV steps |
| MER | > 38 dB typical |
| I/Q Amplitude Imbalance | < 1% typical |
| Spectral Tilt | < / = 1 dB over 6 MHz typical |
| CONTROL SET-UP | |
| 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 |

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