



Casinos & Betting Shops



Fitness & Health Clubs



Hospitality

HDb2840-EU

HD Digital Encoder / Modulator

Headend Ready for High Density Distribution of HD 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

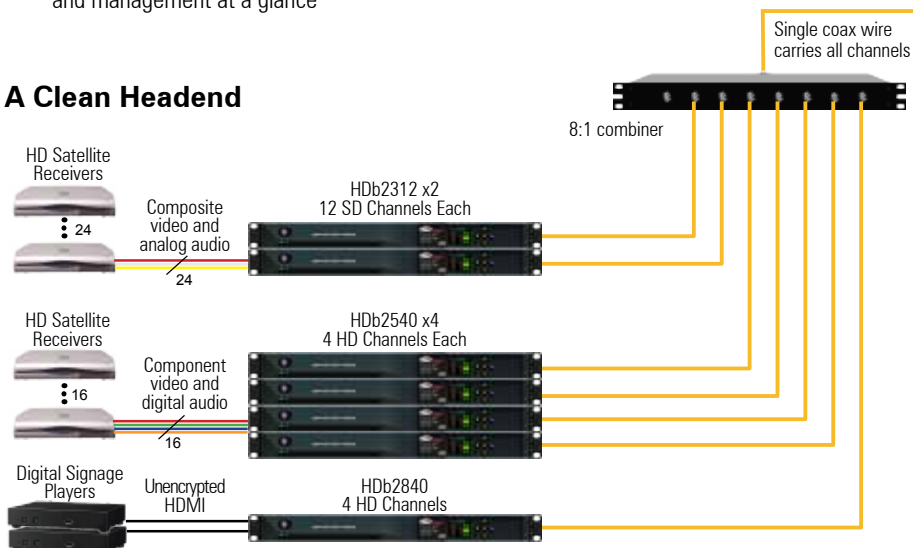
Ease of Management

- 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)
- Bonus information channel for use with small video loops

A Clean Headend



HDbridge2000
SERIES

Easy Setup
Simple Installation
Quick Rollout
And It's Done.



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HDb2840

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HDbridge2000
SERIES



HDb2840 Rear Detail



HDb2840 Front Detail



ZvSync

ZvSync is a digital cable tuner with HDMI, composite, and analogue 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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BOSTON | DENVER | LONDON

| GENERAL | |
|--|---|
| Model Name | HDbridge Series 2000, HDb2840 |
| Part Number | HDb2840-EU |
| 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 0 C ^o to +45 C ^o (+32 F ^o to +113 F ^o) / 10% to 80%, non-condensing |
| Vibration | NSTA 1A in carton |
| MTBF | 62,000 hours |
| Compliance | FCC Class A, IEC60065, EN61000 (see manual 70-00046-00), CE, RoHS, RCM C-Tick |
| Enclosure Type | Metal |
| Mounting | Rack ears shipped attached, 1RU high |
| Enclosure Dimensions | 43.6 mm (H) x 440.2 mm (W) x 251.5 mm (D) 1.72 in. (H) x 17.33 in. (W) (without rack mount ears) x 9.9 in. (D) |
| System Weight | 2.84 kg (6.25 lbs.) |
| Carton Dimensions (individual) | 108 mm (H) 785 (mm) W 308 (mm) (D) 4.25 in. (H) 30.875 in. W 12.125 in (D) |
| Shipping Weight | 3.58 kg (7.88 lbs.) |
| Warranty | 5 years |
| VIDEO INPUT | |
| Unencrypted HDMI | Four (4) ports per model up to 1080 |
| Extra Digital Channel | MPEG2 Program stream file, up to 200 MB |
| AUDIO INPUT | |
| Digital Audio and Stereo Analogue | Digital as element of HDMI 1.3 port or 3.5 mm stereo female, line level input per channel |
| Encoder Audio Profile | ATSC A/52, Dolby®Digital (AC-3) |
| VIDEO ENCODER | |
| Encoder Video Profile | MPEG2 HD: ISO13818-2 Main Profile @ High Level |
| 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 |
| GOP Size | 15 |
| Video, Audio PID | Programmable starting value |
| Program Information | Programmable program name, EIT |
| AUDIO ENCODER | |
| Encoder Audio Profile | ATSC A/52, MPEG-1 Audio Layer 2 |
| MODULATOR / UPCONVERTER | |
| Modulation Types | DVB-T, DVB-C (ITU-T J83 Annex A) (varies by region) |
| Cable Standard | User defined (varies by region), CCIR |
| Frequency Range | 4 paired frequency agile CCIR Channels 21-79, 57 MHz - 900 MHz <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 8 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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