



Corporate



Government



Health Care

HDb2640 / HDb2620-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

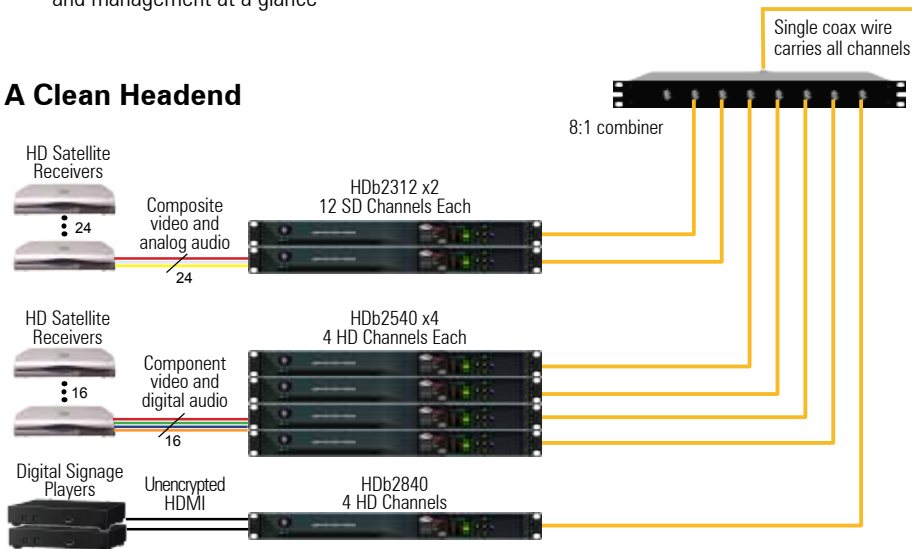
Ease of Management

- 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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Rear Detail



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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GENERAL	
Model Names	HDbridge Series 2000, HDb2640 HDb2620
Part Numbers	HDb2640-EU HDb2620-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° to +45 C° (+32 F° to +113 F°) / 10% to 80%, non-condensing
Vibration	NSTA 1A in carton
MTBF	62,000 hours
Compliance	FCC Class A, IEC60065, EN61000 (see manual 70-00033-00), 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	
Component Video x4 or x2	DIN connector HDbridge end, RCA connectors for HD source up to 1080
Computer VGA (Analogue) x4 or x2	HD-15 connector, 75 Ohm RGB 0 to 0.7V, Separate H and V sync
VGA Resolutions Supported	640x480, 720x480, 800x600, 1024x768, 1152x864, 1176x664, 1280x720, 1280x768, 1280x800, 1280x960, 1280x1024, 1360x768, 1440x900 at 60 70, 72, 75, 85 Hz. 1680x1050 and 1920x1080 at 60 Hz. VGA resolutions are broadcast centered in the best vertical fit into 1920x1080p30 or 1280x720p60
Extra Digital Channel	MPEG2 Program stream file, up to 200 MB
AUDIO INPUT	
Stereo Analogue and Digital Audio x4 or x2	Line level input per channel DIN connector HDbridge end, RCA connector or digital SPDIF audio input. 3.5 mm pigtail connector with VGA
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	16
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	Up to 4 paired frequency-agile CCIR Channels 21-79, 57 MHz - 900 MHz <ul style="list-style-type: none"> • 2 kHz 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