Zvb701-EU
HD Digital Encoder / Modulator

Smaller Deployment, Reduced Footprint for Distributing 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
- Front Panel Display for on-site status and management at a glance

Extensible Architecture
- Easy downloadable firmware updates
- Future enhancements provided regularly

A Clean Headend

Easy Setup
Simple Installation
Quick Rollout
It’s Done.
Zvb701-EU
HD Digital Encoder / Modulator

GENERAL
Model Name  Zvb701
Part Number  Zvb701-EU
Power  100-240 VAC 50/60 Hz, 36W max.  18W Typical IEC 60320-C14
Cooling  Internal cooling fan, Front inlet, Rear exhaust
Temperature/Humidity  Operating 0° to +45° (+32°F to +113°F) / 10% to 80%, non-condensing
Vibration  NSTA IA in carton
MTBF  62,000 hours
Compliance  FCC Class A, IEC60065, EN61000 [see Manual #_____] CE, RoHS
Enclosure Type  Metal
Mounting  Shelf mount flange or rack ears (ordered separately), 1 RU high
Enclosure Dimensions  20.32 cm (H) x 25.4 cm (W) x 4.445 cm (H)
System Weight  1.4 kg (3.1 lbs.)
Carton Dimensions (individual)  6.985 cm (H) x 35.56 cm (W) x 30.48 cm (D)
Shipping Weight  2.3 kg (5 lbs.)
Warranty  1 year

VIDEO INPUT
HDMI x1  One (1) port per model up to 1080
Closed Caption  EIA/CEA-608 captions accepted over composite video input

AUDIO INPUT
Digital Audio and Stereo Analog  Digital as element of HDMI 1.3 port or 3.5 mm stereo female, line level input per channel

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
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  Frequency agile CCIR Channels 21-79
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