CableVista

MPEG to Base Band Video / Audio or RF

The **CableVista** Edge Decoder performs MPEG decoding, modulation and upconversion for up to 24 NTSC/PAL channels in a compact 1 RU chassis. The CableVista supports a variety of output card types in the same chassis including: Baseband NTSC/PAL, RF NTSC/PAL, RF NTSC with Off Air Reference. The CableVista provides customers with the highest degree of flexibility available. With numerous redundancy features, hot-swappable components and flexible software, the CableVista is the key element in today's Digital Simulcast network.

Key Features

- Multiple output card types available:
  - ➜ MPEG to Base Band (NTSC or PAL)
  - ➜ MPEG to RF Channels (NTSC or PAL)
- EAS support as per SCTE 18 (NTSC BB or RF output cards only)
- VITS insertion (NTSC BB or RF output cards only)
- Modular chassis fits up to 6 output cards and can provide:
  - ➜ Up to 12 Base Band channels decoded in 1RU
  - ➜ Up to 24 RF channels decoded in 1RU

  (Mixing output cards of different types in a single chassis is also possible)
- Internal CLI Tagging (NTSC version only)
- Off Air Reference/Phase Lock (CV1116RF/OAPL)
- GbE Redundancy
- ASI Inputs
- Output module redundancy
- GbE or ASI daisy chaining of several CableVista units possible
- All modules and power supplies are hot-swappable
- IGMPv3 support
- Configuration and control via Web page interface

  (Configuration and control also available though RS232 or SNMP)
- Field upgradable firmware to incorporate new features

Optimized for Gigabit Ethernet Networking

- Full line rate GbE video transport allowing full use of GbE links

"Pay as You Grow" Modularity

- Modular design allows for more output cards to be added as demand grows

High Availability

- Output cards are hot swappable allowing installation or replacement on active systems
- Costly service outages are minimized, uptime is maximized
- Enhanced system reliability: redundant GbE ports, cooling fans, dual power supplies

Extremely High Density

- Up to 12 Base Band or 24 RF channels in 1RU
- Fully tested and interoperable with industry leading networking equipment

GbE Input

Interface	GbE (1+1 Redundant) SFP module (optical or copper)
Data Rate	1 Gbps
Format	MPEG-2 Transport Streams 188-byte TS Packets Unicast and Multicast

ASI Input

Number of Input Ports	2
Connector	BNC
Data Rate per port	210 Mbps
Packet Data Format	188 or 204 bytes/packet
Standard	EN50083-9

ASI Output for Loop Through

Number of Output Ports	1
Connector	BNC
Data Rate per port	210 Mbps
Packet Data Format	188 or 204 bytes/packet
Standard	EN50083-9

Video and Audio

Video Format	MPEG-2, MP@ML up to full D1 resolution
Audio Formats	Dolby Digital (AC-3) MPEG-1 layer 2 (Musicam)

Management and Control

Interface	RJ-45 (10/100 Ethernet) RS-232 (Console Port)
Protocols	SNMP Web Based Interface DHCP/BootP TFTP IGMPv3 Telnet

Power

Input Frequency Range	50/60 Hz
Input Voltage Range	100 to 240 VAC
Power Consumption	331 W maximum (decoding of 24 channels)

General

Chassis Width	19”
Chassis Height	1.75” (1RU)
Chassis Depth	23”
Weight (fully loaded chassis)	26 lbs
Operating Temperature Range	10°C to 40°C
Humidity Range (non-condensing)	10-90%

NTSC

Emergency Alert Messaging

Standard	As per SCTE 18
In-Band Reception	via GbE Input
Out-of-Band Reception	via 10/100 Ethernet

VITS Insertion

Test Patterns	NTC7 Composite, SMPTE Color Bars, Multiburst, Sin(x)/x, FCC Composite, NTC7 Combination, Modulated Ramp, Black Burst, Shallow Ramp
VBI Lines	17 - 20

CLI Tagging

Modulation Type	AM or Carrier Frequency Offset
AM Modulation Freq.	1 to 30 Hz
Depth of AM Modulation	0 to 90%
Carrier Freq. Range	54 to 900 MHz 88 to 900 MHz (CV1146RF only)
Carrier Freq. Offset	-12.5 kHz or -25 kHz
Carrier Freq. Power Offset	-14 dB to 3 dB

Closed Caption / VBI Processing

Input Format	As per ANSI/SCTE 20 2004 or ANSI/SCTE 21 2001
Closed Captioning Format	As per EIA608 (Line 21)

Optional Configurations

- Dual Power Supplies for Redundancy
- -48VDC Power Supply
- Output Modules: Minimum 2 up to a maximum of 6

Any combination of the following output cards can be used in the same CableVista chassis:

CV1120BB
CV1116RF/OAPL
CV1126RF
CV1146RF

PAL B/G

Teletext / VBI Processing

Input Format	As per EN 301 775
Teletext (WST-B) Output	As per ITU-R BT 653-2 (Line 7 to 22)
WSS Output	As per EN 300 294

Optional Configurations

- Dual Power Supplies for Redundancy
- -48VDC Power Supply
- Output Modules: Minimum 2 up to a maximum of 6

Any combination of the following output cards can be used in the same CableVista chassis:

CV1121BB
CV1128RF/PBGN
CV1128RF/PBGF
CV1148RF/PBGN

CableVista CV1100 - Rear
(1RU chassis accommodates 2 to 6 output cards)

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