NE-4012

AVC Standard Definition Network Encoder

Dual-Channel MPEG-4 AVC Standard Definition Network Encoder for CBR Applications

Highlights Include:

- A real-time, full resolution Standard Definition AVC video encoder

- Support for Main Profile @ Level 3

- 2 channels CBR encoding

- IP input

- Low power, 1RU chassis

- Motion Compensated Noise Reduction (MCTF) for enhanced video quality

- Monitoring thumbnail

- Ad insertion support

- Four Ethernet ports

- Digital Turn Around for MPEG-2 inputs

- Trace Feature

- Closed Captioning and Parental Control monitoring

- SNMP interface with published MIB

- Web browser interface

For more information regarding any of these features contact your Motorola sales representative.

This standard definition platform uses advanced encoding technology to deliver high quality CBR video services at exceptionally low bit rates. The NE-4012 is a high density solution designed to deliver IP based multi-channel services, ideal for headend environments.

This IP centric platform delivers flexibility and value. The Network Encoder enhances headend architectures, reducing box count, simplifying signal routing and redundancy support.

This Linux® based platform is ideal for demanding CBR applications.

TECHNICAL SPECIFICATIONS

MPEG-4 Features

Motion Estimation:	Supports P, B & reference B frames
	16x16 and 8x8 block sizes
	1/4 Pixel motion estimation
	Weighted prediction
Noise Reduction:	Motion Compensated Temporal Filter (MCTF)
Rate Control:	CBR rate control
	Dynamic GOP - adaptive B frame
	Selectable GOP structure
Coding:	CABAC entropy coding
Other:	De-blocking filter

Video Processing

Input:	MPEG-2/UDP/IP
Formats:	625i/25; 525i/29.97
Audio:	Pass-through
	up to 24 PIDs per channel
Ancillary Data:	Pass-through
MPEG-4 Profile:	Main; Level 3

Control and Status

Type:	Browser interface
	SNMPv2 with published MIB
	Linux operating system

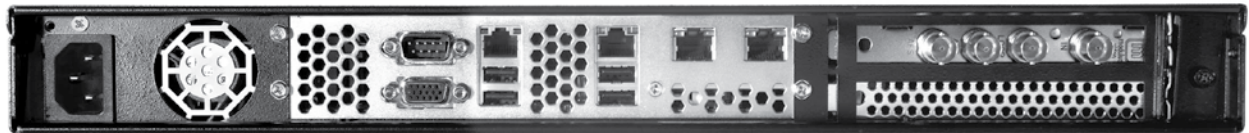### Compressed Stream Output

Ethernet:	3 Gigabit, 1 10/100, RJ-45
IP:	Unicast or Multicast
H.264:	MPEG-2 Transport Stream over UDP/IP
	SCTE35 ad insertion splice points from SCTE104 input
	MPEG-2 input - Digital turn around over UDP/IP

Physical

Width:	18.9" (48cm)
Depth:	15.5" (39.4cm)
Height:	1RU, 1.75" (5cm)
Weight:	14 lb
Packaged Weight:	20 lb
Power:	115-230V (continuous), 47-63Hz
Power Consumption:	Less than 100W
Cooling Air:	Front to rear
Temperature:	To 40C

Other

Limited Warranty:	One year
Compliance:	FCC, CE, UL, RoHS and TUV

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