# NE-4112

## AVC Standard Definition Network Encoder


### Dual-Channel Advanced MPEG-4 AVC Standard Definition Network Encoder for CBR and Capped VBR 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, 1 RU chassis
- Integrated low resolution proxy (PIP)
- Motion Compensated Noise Reduction (MCTF) for enhanced video quality
- Constrained Fidelity (CF-CBR) capped VBR mode
- Microsoft® Mediaroom™ conformance tested
- Monitoring thumbnail
- Ad insertion support
- Four Ethernet ports
- Digital Turn Around for MPEG-2 inputs
- Transcoding AC3 to HE-AAC
- 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-4112 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.

The rich feature set includes Constrained Fidelity CBR, a capped VBR mode for IPTV environments, and a low resolution proxy output stream (PIP) for program guide or monitoring applications. Additionally, the NE-4112 is Microsoft Mediaroom conformance tested. This Linux® based platform is ideal for demanding CBR applications.

**SPECIFICATION SHEET**
NE-4112

## TECHNICAL SPECIFICATIONS

### MPEG-4 Features

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

### Video Processing

| | |
|---|---|
| Input: | MPEG-2/UDP/IP |
| Formats: | 625i/50; 525i/29.97 |
| Ancillary Data: | Pass-through |
| MPEG-4 Profile: | Main; Level 3<br>Low resolution proxy (PIP) |

### Audio Processing

| | |
|---|---|
| Mode: | Pass-through up to 24 PIDs per video channel<br>Transcoding from AC3 to HE-AAC |

### Control and Status

| | |
|---|---|
| Type: | Browser interface<br>SNMPv2 with published MIB<br>Linux operating system |

### Compressed Stream Output

| | |
|---|---|
| Ethernet: | 3 Gigabit, 1 10/100, RJ-45 |
| IP: | Unicast or Multicast<br>Main plus PIP on SPTS MPEG-2/UDP/IP |
| H.264: | MPEG-2 Transport Stream over UDP/IP<br>SCTE35 ad insertion splice points from SCTE104 inputs<br>MPEG-2 input - Digital turn around over UDP/IP |

### Physical

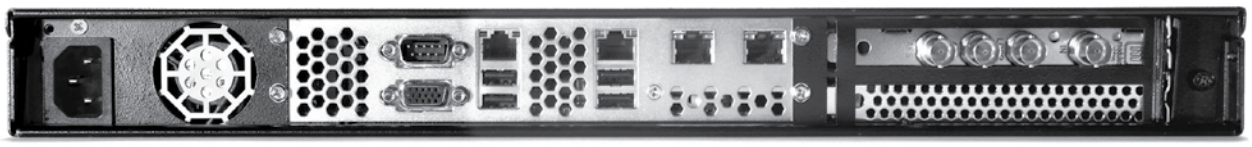
| | |
|---|---|
| Width: | 18.9" (48cm) |
| Depth: | 15.5" (39.4cm) |
| Height: | 1RU, 1.75" (5cm) |
| Weight: | 14 lb |
| Packaged Weight: | 20 lb |
| Power: | 115-230V (continuous), 47-63Hz |
| Power Consumption: | Less than 100W |
| Cooling Air: | Front to rear |
| Temperature: | To 40C |

### Other

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

### Ordering Options

| | |
|---|---|
| SE-AC3xAAC | Transcoding AC3 to HE-AAC |



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