

# SE-5011/5050

## AVC MULTI-FORMAT VIDEO ENCODER



### High Performance MPEG-4 AVC HD/SD Receiver Encoder for CBR Applications

#### Highlights Include:

- A real-time, full resolution High Definition and Standard Definition AVC video encoder
- Support for Main Profile Encoding @ Level 4 for HD services and Main Profile @ Level 3 for SD services
- Multi-pass CBR encoding
- Input flexibility
  - Baseband SDI/HD-SDI (selectable HD/SD)
  - IP and ASI inputs
  - Off air RF input (on SE-5050)
- Low power, 1RU chassis
- Motion Compensated Noise Reduction (MCTF) in SD mode for enhanced video quality
- Monitoring thumbnail
- Ad insertion support
- Four Ethernet ports
- Digital Turn Around for MPEG-2 inputs
- SNMP interface with published MIB
- Web browser interface

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

This high definition platform combines receiver functions with advanced encoding technology to deliver CBR video services at exceptionally low bit rates. In addition to supporting baseband video, the compact 1RU platform offers support for analog off air, ATSC digital terrestrial and direct MPEG-2 inputs.

The receiver functions dramatically enhance headend architectures, reducing box count, simplifying signal routing and redundancy support.

This IP centric platform delivers flexibility, value and exceptional video quality from its advanced multi-pass encoding system. This Linux based platform is ideal for demanding CBR applications.

**SPECIFICATION SHEET**

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<b>TECHNICAL SPECIFICATIONS</b>		<b>Digital Audio Input</b>	
<b>MPEG-4 Features</b> Motion Estimation: Supports P, B & reference B frames 16x16 and 8x8 block sizes 1/4 Pixel motion estimation Weighted prediction  Noise Reduction: SD Motion Compensated Temporal Filter (MCTF)  Rate Control: Multi pass encoding with CBR rate control Dynamic GOP - adaptive B frame (SD mode) Selectable GOP structure  Coding: CABAC entropy coding Other: De-blocking filter		Signal: Serial digital AES Connector: BNC, female Number: 2	
<b>Video Processing</b> Input: HDSDI per SMPTE-292M SDI per SMPTE-259M MPEG-2/UDP/IP MPEG-2/ASI  Formats: 1080i/29.97; 720p/59.94 1080i/25; 720p/50 (HD) 625i/50; 525i/29.97 (SD)  Embedded Audio: Per SMPTE-272M/-299M 4 stereo pairs  MPEG-4 Profile: Main; Level 4 (HD) Main; Level 3 (SD)		<b>Compressed Stream Output</b>  Ethernet: 3 Gigabit, 1 10/100, RJ-45 IP: Unicast or Multicast Main plus PIP on SPTS MPEG-2/UDP/IP  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	
<b>Receiver Inputs (SE-5050 only)</b>  ATSC digital terrestrial NTSC with GCR ghost cancellation		<b>Control and Status</b>  Type: Browser interface SNMPv2 with published MIB Linux operating system	
<b>Audio Processing</b>  Mode: MPEG-1 Layer 2 Dolby® Digital pass-through Dolby Digital 2.0 (optional 2 stereo pairs)		<b>Physical</b>  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	
<b>Ancillary Signal Support</b>  Signals: L21 EIA 608, EIA 708 closed captioning, Teletext		<b>Other</b>  Limited Warranty: One year Compliance: FCC, CE, UL, RoHS and TUV	
<b>Digital Video Input</b>  Signal: Serial digital per SMPTE-259M (SD) Serial digital per SMPTE-292M (HD)  Connector: BNC, female Number: 1		<b>Ordering</b>  SE-5011 Shown below SE-5050 RF input	
		<b>Ordering Options</b>  SE-DD2 Two stereo pairs Dolby Digital 2.0	

