

# 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>		Signal:	Serial digital AES
Motion Estimation:	Supports P, B & reference B frames 16x16 and 8x8 block sizes 1/4 Pixel motion estimation Weighted prediction	Connector:	BNC, female
Noise Reduction:	SD Motion Compensated Temporal Filter (MCTF)	Number:	2
Rate Control:	Multi pass encoding with CBR rate control Dynamic GOP - adaptive B frame (SD mode) Selectable GOP structure	<b>Compressed Stream Output</b>	
Coding:	CABAC entropy coding	Ethernet:	3 Gigabit, 1 10/100, RJ-45
Other:	De-blocking filter	IP:	Unicast or Multicast Main plus PIP on SPTS MPEG-2/UDP/IP
<b>Video Processing</b>		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
Input:	HDSI per SMPTE-292M SDI per SMPTE-259M MPEG-2/UDP/IP MPEG-2/ASI	<b>Control and Status</b>	
Formats:	1080i/29.97; 720p/59.94 1080i/25; 720p/50 (HD) 625i/50; 525i/29.97 (SD)	Type:	Browser interface SNMPv2 with published MIB Linux operating system
Embedded Audio:	Per SMPTE-272M/-299M 4 stereo pairs	<b>Physical</b>	
MPEG-4 Profile:	Main; Level 4 (HD) Main; Level 3 (SD)	Width:	18.9" (48cm)
<b>Receiver Inputs (SE-5050 only)</b>		Depth:	15.5" (39.4cm)
	ATSC digital terrestrial NTSC with GCR ghost cancellation	Height:	1RU, 1.75" (5cm)
<b>Audio Processing</b>		Weight:	14 lb
Mode:	MPEG-1 Layer 2 Dolby® Digital pass-through Dolby Digital 2.0 (optional 2 stereo pairs)	Packaged Weight:	20 lb
<b>Ancillary Signal Support</b>		Power:	115-230V (continuous), 47-63Hz
Signals:	L21 EIA 608, EIA 708 closed captioning, Teletext	Power Consumption:	Less than 100W
<b>Digital Video Input</b>		Cooling Air:	Front to rear
Signal:	Serial digital per SMPTE-259M (SD) Serial digital per SMPTE-292M (HD)	Temperature:	to 40C
Connector:	BNC, female	<b>Other</b>	
Number:	1	Limited Warranty:	One year
		Compliance:	FCC, CE, UL, RoHS and TUV
		<b>Ordering</b>	
		SE-5011	Shown below
		SE-5050	RF input
		<b>Ordering Options</b>	
		SE-DD2	Two stereo pairs Dolby Digital 2.0

