



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
- Down conversion HD to SD (AFD per S2016-1-2007)
- 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 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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TECHNICAL SPECIFICATIONS		Digital Audio Input	
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: 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	
Video Processing 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)		Compressed Stream Output 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	
Receiver Inputs (SE-5050 only) ATSC digital terrestrial NTSC with GCR ghost cancellation		Control and Status Type: Browser interface SNMPv2 with published MIB Linux operating system	
Audio Processing Mode: MPEG-1 Layer 2 Dolby® Digital pass-through Dolby Digital 2.0 (optional 2 stereo pairs)		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	
Ancillary Signal Support Signals: L21 EIA 608, EIA 708 closed captioning, Teletext		Other Limited Warranty: One year Compliance: FCC, CE, UL, RoHS and TUV	
Digital Video Input Signal: Serial digital per SMPTE-259M (SD) Serial digital per SMPTE-292M (HD) Connector: BNC, female Number: 1		Ordering SE-5011 Shown below SE-5050 RF input	
		Ordering Options SE-HD2SD HD to SD Down Conversion SE-DD2 Two stereo pairs Dolby Digital 2.0	



MOTOROLA

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