

SE-4011/4050

AVC Standard Definition Video Encoder



High Performance MPEG-4 AVC Standard Definition Receiver Encoder for CBR Applications

Highlights Include:

- Real-time, full resolution Standard Definition AVC video encoder
- Support for Main Profile @ Level 3
- Multi-pass CBR encoding
- Input flexibility
 - Baseband SDI
 - IP and ASI inputs
 - Off air RF input (on SE-4050)
- Low power, 1RU chassis
- Motion Compensated Noise Reduction (MCTF) for enhanced video quality
- Monitoring thumbnail
- Ad insertion support
- HD upgrade option
- Four Ethernet ports
- Digital Turn Around for MPEG-2 inputs
- SNMP interface with published MIB
- Web browser interface

This standard 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		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:	Motion Compensated Temporal Filter (MCTF)	Number:	2
Rate Control:	Multi pass encoding with CBR rate control Dynamic GOP - adaptive B frame Selectable GOP structure	Compressed Stream Output	
Coding:	CABAC entropy coding	Ethernet:	3 Gigabit, 1 10/100, RJ-45
Other:	De-blocking filter	IP:	Unicast or Multicast
Video Processing		H.264:	MPEG-2 Transport Stream over UDP/IP Transport stream over ASI SCTE35 ad insertion splice points from SCTE104 input MPEG-2 input - Digital turn around over UDP/IP
Input:	SDI per SMPTE-259M MPEG-2/UDP/IP MPEG-2/ASI	Control and Status	
Formats:	625i/25; 525i/29.97	Type:	Browser interface SNMPv2 with published MIB Linux operating system
Embedded Audio:	Per SMPTE-272M 4 stereo pairs	Physical	
MPEG-4 Profile:	Main; Level 3	Width:	18.9" (48cm)
Receiver Inputs (SE-4050 only)		Depth:	15.5" (39.4cm)
	ATSC digital terrestrial NTSC with GCR ghost cancellation	Height:	1RU, 1.75" (5cm)
Audio Processing		Weight:	14 lb
Mode:	MPEG-1 Layer 2 Dolby® Digital pass-through Dolby Digital 2.0 (optional 2 stereo pairs)	Packaged Weight:	20 lb
Ancillary Signal Support		Power:	115-230V (continuous), 47-63Hz
Signals:	L21 EIA 608, EIA 708 closed captioning, Teletext	Power Consumption:	Less than 100W
Digital Video Input		Cooling Air:	Front to rear
Signal:	Serial digital per SMPTE-259M	Temperature:	To 40C
Connector:	BNC, female	Other	
Number:	1	Limited Warranty:	One year
		Compliance:	FCC, CE, UL, RoHS and TUV
		Ordering	
		SE-4011	Shown below
		SE-4050	RF input
		Ordering Options	
		SE-DD2	Two stereo pairs Dolby Digital 2.0
		SE-HDU	HD upgrade option

