

IP-9400

High performance H.264 AVC encoder

Fujitsu Advanced MPEG-4 AVC Technology

High Performance with low latency - ideal for ENG/SNG operations

- ▶ HD and SD Simulcast Capability
- ▶ Region of Interest Processing - Provides Best Picture Fidelity
- ▶ Low Encode-Decode Latency
- ▶ Non-Degrading 4:2:0 Concatenation Protection
- ▶ Data Stream Protection with Advanced FEC/ARQ
- ▶ VoIP Full Duplex Communication
- ▶ Auto sensing Gigabit Ethernet Output with DVB-ASI or DVB-S/S2 Built-in Modulator (option)



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The Fujitsu IP-9400 is specifically suitable for DENG and DSNG operations where the best video fidelity is needed within the lowest possible channel bandwidth. IP-9400 enables HD content to be carried within an existing SD channel. When combined with the optional built-in DVB-S2 modulator provides up to 70% bandwidth saving compared with older MPEG-2 systems.

The IP-9400 encoder utilizes advanced Fujitsu technology to provide industry standard MPEG-4 AVC encoding for real-time transmission of HD/SD content at the highest bandwidth efficiency. Powerful error correction and retransmission technology protect the integrity over IP networks by preventing corruption and loss of data. The IP-9400 provides field proven superior performance and robustness making it perfectly suited for demanding mobile and fixed site operations.

Fujitsu high performance H.264 compression algorithms reduce the encoded bitrate and bandwidth requirement by more than 50% compared to MPEG-2 systems, while preserving high video and audio fidelity. HD and SD content can now be transmitted at a significant cost saving using existing DVB satellite and broadband IP networks. IP-9400 allows HD news content to be transmitted within the same bandwidth as SD content encoded in MPEG-2.

IP-9400 provides flexible transmission options using 10T/100T/1G Ethernet for IP connectivity, DVB-ASI or DVB-S/ S2 transports. With a low (280ms) encode-decode latency, IP-9400 is well suited for delay-sensitive live-event applications. Standard HD/SD-SDI and HDMI allow quick interconnects with HD/SD devices. A full-duplex VoIP intercom provides an efficient communication link between encoder and decoder locations.

For more information, call us at 877-766-7545 (toll free in the US) or visit our website at: fujitsufronttechna.com

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IP-9400 Specifications		
Video	Input	1 x HD-SDI / SD-SDI 1 x HDMI (HD/SD)
	Output	1 x SDI loop thru 1 x NTSC/PAL monitor [HD down-converted]
	Input Format	1080i (59.94 / 50 Hz) 720p (59.94 / 50 Hz) 480i (59.94 Hz) ; 576i (50 Hz)
	Output Resolution/Bitrate	[1920 / 1440 / 960] x 1080i - 3 - 12 Mbps [1280 / 960 / 640] x 720p - 3 - 12 Mbps 720 x [576i / 480i] - 1.3 - 6 Mbps 352 x 240 / 256 or 384 kbps (VBR) 192 x 192 / 256 or 384 kbps (VBR) 96 x 96 / 192 or 256 kbps (VBR) TS rate adjustment at 1kbps increments
	Color Format	4:2:0 (Non-Degraded)
	Profile	HD SD
	Profile	HP@L4; MP@L4 HP@L3; MP@L3; MP@L1.3
	GOP	Changeable GOP - Scene Change Detection
Audio	Latency Modes	Standard Mode: IP - 1.3 sec; DVB - 1.15 sec Low Latency Mode: IP - <0.5 sec; DVB - <0.3 sec
	Input	SDI Embedded - 2 Pairs Analog Stereo (Balanced) - 1 Pair HDMI - 1 Pair
	Coding	MPEG-1-Layer 2 MPEG2-AAC
	Quantization Format	Sampling Rate: 48 kHz Quantization: 16 / 20 bit
Multiplexing	MPEG-2 TTS; MPEG-2 TS	
Auxiliary Data	RS-232C (pass-thru)	
Network Interface	LAN	2 x 10BASE-T / 100BASE-TX / 1000BASE-T
	DVB-ASI (Optional)	2 x Outputs
	DVB-S/S2 (Optional)	IF-Band Modulator L-Band Modulator
Encryption	BISS Model1/E	
Error Correction	Pro-MPEG COP3 Fujitsu FEC and ARQ	
Streaming Protocols	UDP, RTP, Multicast and Unicast TOS bit setting	
Configuration and Control	SNMP v2c Front Panel Control WEB GUI	
Voice Intercom	Full Duplex VoIP; G.711 8 kHz Sampling Rate at 64 kbps	
Size	1RU x 16.7" W x 13.8" D	
Weight	13.2lb (6 kg)	
Power Supply	100 - 240 VAC	
Power Consumption	Max. 60W (w/o Option)	
Operating Temperature	-10° to 55° C	
Certifications	UL, CE, FCC, RoHS	



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