



Encoding & DVB-S/S2 Modulation

Latency 150ms

Chroma Depth 4:2:0 4:2:2(10bit)

Resolutions up to 1080p

L-Band or IF output

Introduction

DMP-9724SNG is a fully integrated MPEG-2/MPEG-4 AVC (H.264) Encoder with DVB-S/S2 Modulator in a space-efficient 1RU chassis specially designed for teleports and Digital Satellite News Gathering (DSNG) applications.

DMP-9724SNG provides the professional quality compression at ultra low latency with built-in DVB-S/S2 Modulator and IF/L-Band outputs.

Competitiveness

- Providing your viewers with the best performance compression and flawless picture quality
- Wide use in many projects with high compatibility supporting various formats
- Best choice for broadcasting of racing, sports via real time encoding with ultra low latency at 150ms
- Reduce the cost of transmission as supporting wide range of bit-rate control and advanced video coding techniques
- Able to secure space with compact size for installing

Options

- Select on order: L-Band or IF

Feature

- Component, Composite, HDMI, HD/SD-SDI video inputs
- Ultra low latency as 150ms
- Up to 1080p supported
- 4:2:0, 4:2:2(10bit)
- Digital, Analog and SDI embedded audio(8channel) inputs
- 5.1 channel Dolby Digital (AC-3) encoding support
- 7.1 channel SPDIF audio optical input (pass through)
- Additional 1xASI input for supporting of insertion of externally generated PSIP into the transport stream
- Provides internally generated PSI, PSIP, SI
- Control of Frame rate
- Selectable MPEG-2 HD or H.264 HD real-time video encoding
- Dolby Digital (AC-3), MPEG-1 Layer II, AAC-LC, HE-AAC audio encoding
- CEA-608 input source is converted to 708
- Internally generated TVCT, CVCT, SDT, NIT
- Control and monitoring via web browser, front panel, or SNMP
- 4 channel AES/EBU Digital Audio
- 4 stereo (8channel) Analog input with D-sub type
- Integrated Advanced Scaler function
 - Control of Frame rate, Image enhance
 - Phase Noise, Correction of Color, Control of Gamma
- L-Band Output 950 ~2150 MHz or IF Output 50 ~ 180 MHz
- DVB-S/S2 Modulation
- BISS mode-1 and BISS mode-E and BISS mode-0
- Designed for Teleports, Digital Satellite News Gathering Vehicles
- Operating on either the C, Ku or Ka-bands
- Symbol Rate: 1 baud ~ 50 Mbaud
- Video Confidence Monitoring
- Redundancy as Dual Power

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DSNG Encoder

DMP-9724SNG

Specifications

ITEM		CHARACTER		
Video Input	Analog	Input Level	Composite, Component(up to 1080i) 1 Vp-p	
	Digital	Input Level	HDMI, HD-SDI 1000 mVp-p (HDMI) 800mVp-p (HD-SDI)	
	Resolutions		480i29.97, 576i25, 720p50/59.94, 1080i25/29.97, 1080p25/29.97	
	SD Aspect Ratio		4:3, 16:9	
Audio Input	Analog	Input Freq. Range Impedance Connector	4 Stereo 20 Hz ~ 20 KHz 600 Ω D-SUB 15pin x 2	
	Digital	Input Sampling Rate Connector	4 x AES-EBU, Embedded SDI/HDMI (4 Stereo 8 Channel) 32, 44.1 and 48 KHz BNC (75Ω) / HDMI-19PIN	
	Optical	Input	SPDIF(7.1 Channel) pass through	
	Encoding		MPEG-2 HP@HL, MP@HL, MP@ML H.264 HP@L4, MP@L3	
Video Encoder	Encoding Rate		MPEG-2 : 1.6~50 Mbps , H.264 : 0.6~50 Mbps	
	Chroma Depth		4:2:0(8bit), 4:2:2(10bit)	
	PSNR		38 dB	
	Bit Rate Mode Latency		CBR, VBR 150 ms~	
Audio Encoder	Input sampling Rate		32, 44.1, 48 KHz	
	Output sampling Rate		48 KHz	
	Encoding	MPEG-1 Layer II (2ch) AAC LC (2ch, 5.1ch)	AC-3 (2ch) HE-AAC v1 (5.1ch)	AC-3 Pro (2ch, 5.1ch) HE-AAC v2 (2ch)
	Audio Mix		4 Stereo (8channel) or 5.1ch	
	Bit Rate	AC-3 AC-3 Pro MPEG1 AAC LC HE AAC v2 AC-3 Pro 5.1 AAC LC 5.1 HE AAC v1 5.1	128, 192, 256, 384 KHz 96, 112, 128, 160, 192, 224, 256, 320, 384 KHz 64, 96, 112, 128, 160, 192, 224, 256, 320, 384 KHz 32, 48, 56, 64, 80, 96, 112, 128,160,192, 224, 256, 320,384 KHz 32, 48, 56, 64, 80, 96 KHz 224, 256, 320, 384, 448, 576, 640 KHz 96, 112, 128, 160, 192, 224, 256, 320, 384 KHz 96, 112, 128, 160, 192, 224, 256 KHz	
	Dolby E-Pass Through	*Under the audio input source	of Dolby-E only	
	Delay		-100 ~ 400 ms	
	TS Input	Transport Stream	DVB-ASI 1port	Mode code QPSK, 8PSK, 16QAM
		Connector	BNC (75 Ω)	Roll-Off 0.03, 0.05, 0.10, 0.15, 0.20, 0.25, 0.35
		Packet Format	188 Byte	BISS Mode (1, E Injected, E Buried and 0)
Output Level		800 mVp-p	Symbol Rate 1 ~ 50Mbauds / Step 1 Baud	
TS Output	Transport Stream	ASI 2port	Mode code QPSK, 8PSK, 16APSK, 32APSK	
	Connector	BNC (75 Ω)	Roll-Off 0.03, 0.05, 0.10, 0.15, 0.20, 0.25, 0.35	
	TS Bit Rate	MPEG-2 : 2.5~60 Mbps , H.264 : 2.5~60 Mbps	BISS Mode (1, E Injected, E Buried and 0)	
	Packet Format	188 Byte	Symbol Rate 1 ~ 50Mbauds / Step 1 Baud	
Ethernet	Connector	RJ-45	Pilot Insertion On / Off	
	Interface Type	10/100 Base-T	Operating Mode CCM only	
	Protocols	SNMP	Frame Type Normal / Short	
			Reverse Spectrum Carrier Modulator	
General	Power Requirements	AC 90~230 V, 50/60 Hz	RF Option Out Level -26.75 ~+5.00 dBm	
	Power Consumption	Max. 100 W	10MHz Reference clock supports	
	Weight	4 Kg	L-Band 950 ~ 2150 MHz / Step 1 KHz	
	Operating Temperature	-10 ~ 50 °C	IF 50~180MHz / Step 1 KHz	
	Dimensions (W x H x D)	482 x 44 x 483 mm	CID support	
			Power 12, 18, 24 VDC	
			Reference Clock 10 MHz (Internal or External)	