DMP600

Multiple Channel Encoding Platform

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MPEG2 H.264 MPEG-4/AVC HEVC High Effeciency Video Coding SDI HDMI 4K ULTRA HD



DMP600 Multiple Channel Encoding Platform, it is a high integrated professional Digital Head-end equipment. This 1RU case comes with 6 independent hot-swappable module slots, which include 4x3G-SDI(4K-HEVC/H.265 UHD) encoding module, HD-SDI encoding module, digital/analog audio encoding module, analog video encoding module, up to 5 channels 4K@60fps. It is an all-in-one device multiple inputs video encoding (H.264 /H.265/MPEG-2) in one standard 1 RU case.

Its flexible configuration is making it extremely scalable, reliable with high performance and each module can be used and configured independently. With functional combination, DMP600 will give cost effective solution for Digital TV Broadcasting Service which are applied to DVB-S2, DVB-T, DVB-C, IPTV and TV Station of Live streaming media system popularly.

Features

- **1RU, 6 independent hot-swappable module slots**
- Multiple video resolution including 2160p (4K@60fps), 1080p,1080i, 720p, 576P, and 576i, 480i
- Multiple inputs interface: 4x3GUHD, HD/SD SDI, HD-MI, CVBS, analog audio, AES/EBU
- MPEG-2/H.265 / HEVC and H.264 / MPEG-4 AVC 4:2:0/4:2:2 10-bit encoding
- MPTS/SPTS (UDP / RTP protocol) /2*ASI output
- pluggable encoding and output modules design
- MPEG-1 Layer II & AAC Linear PCM audio encoding
- Low latency Mode with 80ms delay in 4K module
- ultra-low bit rate compression
- Built-in multiplexing function
- Supports VBR and CBR encoding modes
- Reliable: Hardware based for 24/7 operation
- Remote Control and Supervision by HTTP WEB
- Easy-to-Use System Management
- Redundancy Power Supply
- passed the EU CE certification

Application

- Digital television broadcasting systems
- satellite, cable, terrestrial and fiber networks
- Remote live Rebroadcasts and real-time transmission
- Building, campus or metropolitan-area

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TECHNICAL SPECIFICATIONS (Hot-swappable and modular design)

HEVC/4K Encoder Module



Input	4x3G-SDI BNC,75 Ω
Video Encoding	H.265 (HEVC)/H.264 (AVC)/MPEG-2 1 channel 4K encoding 4 channels Full HD Encoding
Resolution	2160p, 1080p, 1080i, 720p, 576p, 576i, 480i
chroma	10bit, 8bit, 4:2:2, 4:2:0, HDR10, HLG
Audio Encoding	MPEG-1 Layer II MPEG-2 AAC Linear PCM 4 independent SDI embedded audio
Bit Rate	2-80Mbps
Delay	Low delay mode minimum 80ms
Rate Control	CBR/VBR

MPEG-2/H.264 HD-MI/SDI Encoder Module



Input	2 x HD/SD-SDI/HD-MI
Video Encoding	H.264 (MPEG-4 part 10) High profile/Level 4.0 HD **MPEG-2 Main profile (SD output only)**
Resolution	1080i, 720p, 576p, 576i, 480i
Chroma	8bit, 4:2:0
Audio Encoding	MPEG-1 Layer II MPEG-2 AAC Linear PCM
Sampling Rate	48KHz
Bit Rate	2-20Mbps
Rate Control	CBR/VBR

H.264 (1080P) Encoder Module



Input	2 x HD/SD-SDI/HD-MI
Video Encoding	H.264 (MPEG-4 part 10) High profile/Level 4.0 HD
Resolution	1080p, 1080i, 720p, 576p, 576i, 480i
Chroma	8bit, 4:2:0
Audio Encoding	MPEG-1 Layer II MPEG-2 AAC Linear PCM
Sampling Rate	48KHz
Bit Rate	2-20Mbps
Rate Control	CBR/VBR

MPEG-2/H.264 CVBS Encoder Module



Input	2xBNC video, 4xRCA
Video Encoding	H.264/MPEG-2
Resolution	576i, 480i
Audio Encoding	MPEG-1 Layer II MPEG-2 AAC Linear PCM
Sampling Rate	48KHz
Rate Control	CBR/VBR

Audio Encoder Module



Input	2 x Mini CANNON, 4 x Analog Mini CANNON
Audio Encoding	MPEG-1 Layer II MPEG-2 AAC Linear PCM
Sampling Rate	48KHz
Bit Rate	32Kbps~384Kbps

Output

ASI output	2×BNC 75Ω
IP output	1x100/1000Base-T 1*MPTS and N*SPTS simultaneously

Control & Monitoring

Connector Type	1×RJ-45, 10/100 Base-T
Remote Control	HTTP Web
Local Control	LCD display and 6-key keypad
Software Upgrade	web

Environment

Power supply	Dual power supply AC90~250V, 50Hz/60Hz
Power Consumption	Maximum 20W
Dimension	450*350*44mm
Operating Temperature	0 ~ 45℃
Storage Temperature	-10 ~ 60℃
Humidity	10 ~ 90%, non-condensed
Net weight	5Kg

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