GC-1806

4-Ch Professional SD-SDI Decoder

Product Overview

GC-1806 is a world's first highly integrated professional headend with multi-channel receiver, digital video and audio decoder in 1RU chassis.

It supports a wide range of input and output options, coming from DVB-S/S2 satellite, Ethernet network and local DVB-ASI interface, allowing it handle any program sources, decoding output via SMPTE compliant SD-SDI interfaces.

The GC-1806 supports Web browser and SNMP management for local and remote management and control. It can significantly reduce management time and operating expense (OPEX) of operators.

Features and Benefits

Lower CAPEX, Highly Cost-effective

- High density: 1RU, up to 4 channels of SD digital video and audio decoding output;
- Versatile functions: supports DVB-S/S2 RF reception & demodulation, Ethernet network and DVB-ASI TS input, SD-SDI video output with embedded digital audio;
- Multiple video decoding formats as standard configuration, no additional charge for software license, including MPEG-2, MPEG-4 AVC;
- Multiple audio decoding formats: MPEG-1 Layer II and MPEG-2.

Lower OPEX, Improved User Operation Efficiency

- Convenient management and maintenance, supports Web browser and SNMP based management, for local and remote management and maintenances;
- Supports remote software upgrades;
- Front panel control and alphanumeric LCD display;
- Supports export and import configuration file of equipment parameters;
- High reliability and stability: Benefit from its highly reliable hardware and software design; adopts GOSPELL's third generation motherboard + built-in discrete function module design, for fast replacement of failure function module; multiple protective mechanisms are included, such as power failure memory recovery, over-voltage, over-load, short-circuit protection.

Technical Specifications

RF Input

Number of Inputs	2 x RF Input, 2 x RF Loop Out
Connector Type	F-Type (Female, 75Ω)
Frequency Range	950MHz to 2150MHz
Input Signal Level	-65dBm to -25dBm
Standards	DVB-S: EN 300 421 DVB-S2: EN 302 307
Constellations	DVB-S: QPSK DVB-S2: QPSK/8PSK
Symbol Rate	QPSK: 2.0Msym/s to 45Msym/s 8PSK: 10Msym/s to 31Msym/s
LNB Power Output	0V/+DC 13V/18V, LNB short circuit protection

TS-over-IP Input

Numbers of Interface	1 x 100/1000Base-T Ethernet
Connector Type	RJ-45
Data Format	7 x 188 Bytes
Transport Protocols	TS-over-UDP/RTP
Addressing	Unicast, Multicast (IGMPv1, v2)

ASI TS Input

Numbers of Interface	1 x ASI Input
Connector Type	BNC (Female, 75Ω)
Standards	DVB-ASI
Data Format	188 Bytes MPEG-TS packet length
Bit Rate	1.5 to 99 Mbps

Digital Video and Audio Output

Serial Digital Interface	4 x SD-SDI
	BNC female, 75Ω
	SMPTE 259M
Digital Audio	Embedded in SD-SDI

Video Decoding

Decoding Profile & Level	MPEG-2 SD: MP@ML MPEG-4 AVC SD: MP@L3
Resolution& Frame Rate	PAL: 576i@25fps
Aspect Ratio	4:3

Audio Decoding Options

Decoding Formats	MPEG-1 Layer II MPGE-2

Operation Mode	Stereo or Mono
Supported Sample Rate	32 kHz, 44.1 kHz, 48 kHz
Audio Decoding Rate	MPEG-1 Layer 2: 192-384 kbps

Network Management

Interface	1 x 10/100 Base-T Ethernet
Connector	RJ-45
Management	Web browser and SNMP management

Miscellaneous

Front Panel	3.5'' LCD with 6 x Control Buttons for 2-line alphanumeric display and parameter settings
	3 x Dual color LED, for status indications of power, work and Alarm
Rear Panel	1 x Power Supply Receptacle (AC Input)
	1 x Power switch

Power Supply

Input Voltage	110-240 VAC, 50/60Hz
Power Consumption	45W(Maximum)

Environmental

Operating Temperature	0℃ to 45℃ (32℉ to 113℉)
Storage Temperature	-20℃ to 80℃ (-4℉ to 176℉)
Operating Humidity	90%, non-condensing

Mechanical

Product Dimensions (W x H x D)	1RU: 483mm x 44.5mm x 450mm 19'' x 1.73'' (1RU) x 17.7''
Product Weight	1RU: 5Kg (6.6 lbs)

For More Information

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