GN-1772

Multi-Channel Trans-coder

Product Overview

With the number of channel increasing fast, DTV operators require the ability to have a multi-channel transcoding solution to simplify their headend architecture and to reduce the amount of headend equipment needed. To achieve this, they need products able to deal with multi-channel MPEG-2 and MPEG-4 AVC video streams.

GOSPELL's GN-1772 a new generation of modular & high density SD video and audio conversion unit with best-in-class video quality. It supports up to 36/72 channels MPEG-2/MPEG-4 AVC SD live video and audio services transcoding with IP in and out by using six external pluggable transcoding modules for broadcast and Over-The-Top(OTT) applications.

GN-1772 supports web browser and SNMP management for local and remote monitoring and controlling that can greatly reduce management time and operating expense (OPEX) of operators.

Main Features

- 1RU modular design, supporting up to six pluggable transcoding modules
- Supports up to 36/72 SD MPEG-2 and MPEG-4 AVC video services transcoding
- Supports optional AC-3, AAC-LC and MPEG-1 Layer II audio transcoding and down-mix
- Audio streams pass-through
- Transport stream inputs and output via Gigabit Ethernet ports
- Supports RTP/UDP/ARP/ICMP/IGMP protocols
- Supports VBR/CBR video encoding
- Supports device configuration import/export and online remote update
- Web and SNMP-based management for remote management and maintenance

Technical Specifications

Modules Capability

Type of Sub Module	Plug-in Type
Max Num of Modules	6 x Sub Modular(Transcoding Module)
Processing Capability	Up to 6 x 6 SD Programs Transcoding
	Up to 6 x 12 SD Programs Transcoding

IP Input & Output

Interface	2 x 100/1000 Base-T Ethernet
Connector	RJ-45
MPEG TS Format	7 x 188Byte
IP Encapsulation	MPEG TS-over-UDP/RTP
MPEG TS	MPTS or SPTS
Addressing	Unicast or Multicast(IGMP v2 & v3)

Video Transcoding(Transcoding Module)

Transcoding Format	MPEG-2 MP@ML to MPEG-4 AVC
	MPEG-4 AVC to MPEG-2 MP@ML
Processing Capability	Up to 6/12 SD Programs Transcoding
Video Resolution and Frame Rate	PAL:
	720/704/640/544/480/352
	*576 fps25
	352/320*288 fps25
	NTSC:
	720/704/640/544/480/352
	*480 fps29.97
	352/320*240 fps29.97
Encoding Mode	CBR,VBR
Video Output Bit Rate	MEPG-2: 0.5-5.5Mbps
	MEPG-4: 0.25-5.5Mbps

Audio Transcoding(Transcoding Module)

Audio Processing	Decoding and Encoding
	Pass-through
Pass-through	MPEG-1 Layer II
	AAC-LC
	HE-AAC v1
	HE-AAC v2
	AC-3
	E-AC-3
Sample Rate	48KHz

Network Management

Interface	1 x 100/1000 Base-T Ethernet
Connector	RJ-45
Management	Web browser and SNMP management
Supported Protocols	HTTP4.0/HTML1.1/XML/CGI(Web Management), NTP

Miscellaneous

Front Panel	3.5'' LCD with 5/6 x Control Buttons for 2-line information display and settings
	3 x Dual color LED, for status indications of power, work and Alarm
Rear Panel	1 x Serial console port(RJ-45connector)
	1 x 3-Pin Power Supply Receptacle (AC Input)
	1 x Power switch

Power Supply

Input Voltage	90 - 260 VAC, 50/60Hz
Power Consumption	50W(Typ.)

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)	483mm x 44.5mm x 450mm 19'' x 1.73'' (1 RU) x 17.7''
Product Weight	Approx. 5Kg (11 lbs)

Rear Panel View (For reference only)

Ordering Information

Option Information

Hardware Code	Descriptions
GN-1772-XX	Multi-Transcoding with XX transcoding modules, 2 x 100/1000Base-T (RJ-45) Input and Output, supports MPEG-2/MPEG-4 AVC video transcoding and audio pass-through,

For More Information

Please visit our website: http://www.gospell.com or contact your local sales representative:

GOSPELL Shenzhen, China

Overseas Sales Center

Block F10-F13, F518 Idea Land, Baoyuan road,

Bao'an Central District, Shenzhen City 518102,

Guangdong Province, China

TEL: +86-755-26716172

FAX: +86-755-29114035

E_mail: sales.dtv@gospell.com

GOSPELL India (Office)

Office No.C-503, 5th Floor, L.B.S. Road, Bhandup

(West), Mumbai-400078

TEL: +91 9167995 705

E_mail: ashish@gospell.com

GOSPELL Brazil (Joint Office)

Rua Engenheiro Prudente, 477/483, Sao

Paulo, Brazil

TEL: +55 (11) 2274-1455

E_mail: zhouyong@gospell.com

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