

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 |
| | PAL: 720/704/640/544/480/352 *576 fps25 |
| Video Resolution and Frame Rate | 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 1 x Serial console port(RJ-45connector) |
| Rear Panel | 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°C to 45°C (32°F to 113°F) |
| Storage Temperature | -20 to 80°C (-4°F to 176°F) |
| 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

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