GC-1803

8-Ch Professional FTA Receiver and Decoder

Product Overview

GC-1803 is a multi-channel professional FTA receiver and decoder with broadcast-quality launched by GOSPELL. This was designed for demodulating and decoding up to eight unscrambled SD MPEG-2, AVC and AVS programs.

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 analog composite video and unbalanced or balanced audio interfaces. It is also highly versatile and can decode up to eight channels SD MPEG-2, AVC, AVS programs in one rack unit.

The GC-1803 supports Web browser and SNMP management for local and remote management and maintenances, this can significantly reduce management time and operating expense (OPEX) of operators.

Features and Benefits

Lower CAPEX, Highly Cost-effective

- High density: 1RU, up to 8 channels of standard definition video and audio decoding output;
- Versatile functions: supports DVB-S/S2 RF reception & demodulation, Ethernet network and DVB-ASI TS input, unbalanced or balanced analog audio output;
- Multiple video decoding formats as standard configuration, no additional charge for software license, including MPEG-2, MPEG-4 AVC and AVS;
- 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 (Hardware Option)

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 (Hardware Option)

Numbers of Interface	1 x 100/1000Base-T Ethernet
Connector Type	RJ-45
Data Format	7 x 188 Bytes
Transport Protocols	TS-over-UDP
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 each

Analog Video and Audio Output

Composite Video	8 x CVBS
	BNC female, 75Ω
Unbalanced Audio	8 x Stereo pairs (R&L)
	BNC female, 600Ω
	Stereo or Mono mode

Analog Balanced Audio Output (Hardware Option)

Numbers of Interface	8 x Stereo pairs (R&L)
Connector Type	XLR male, 110Ω
Operation Modes	Stereo or Mono

Remarks: This hardware option is available for 2RU chassis only.

Video Decoding

Decoding Profile & Level	MPEG-2 SD: MP@ML MPEG-4 AVC SD: MP@L3 AVS

Resolution& Frame Rate	PAL: 576i@25fps NTSC: 480i@30fps
Aspect Ratio	4:3 or 16:9

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 Serial Console Port(via RJ-45 connector)
	1 x Power Supply Receptacle (AC Input)
	1 x Power switch

Power Supply

Input Voltage	110-240 VAC, 50/60Hz
Power Consumption	30W(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'' 2RU: 483mm x 89mm x 450mm 19'' x 3.5'' (2RU) x 17.7''
Product Weight	1RU: 3Kg (6.6 lbs) 2RU: 6Kg (13.2 lbs)

Rear Panel View (For reference only)

GC-1803-S (1RU Configuration)

Ordering Information

1RU Hardware Options

Hardware Codes	Descriptions
GC-1803-S	1RU, 1 x ASI input, 2 x DVB-S/S2 input, 8 x CVBS and Unbalanced Stereo Pair(R&L) output
GC-1803-P	1RU, 1 x ASI input, 1 x 100/1000Base-T input, 8 x CVBS and Unbalanced Stereo Pair(R&L) output
GC-1803-SP	1RU, 1 x ASI input, 2 x DVB-S/S2 input, 1 x 100/1000Base-T input, 8 x CVBS and Unbalanced Stereo Pair(R&L) output

2RU Hardware Options

Hardware Codes	Descriptions
GC-1803-BS	2RU, 1 x ASI input, 2 x DVB-S/S2 input, 8 x CVBS and Balanced Stereo Pair(R&L) output
GC-1803-BP	2RU, 1 x ASI input, 1 x 100/1000Base-T input, 8 x CVBS and Balanced Stereo Pair(R&L) output
GC-1803-BSP	2RU, 1 x ASI input, 2 x DVB-S/S2 input, 1 x 100/1000Base-T input, 8 x CVBS and Balanced Stereo Pair(R&L) output

For More Information

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