Digital Satellite Integrated Receiver Decoder with Multiplexing and Scrambling

Detailed Product Description

Support: IP/ASI OUTPUT CAM: 8 CAM SLOT

Model No: GC-1808M

1: Support DVB-S/DVB-C/ISDB-T
2: RF input and IP output
3: Support Biss encryption
4: Multiplexing and Scrambling function Optional

Product Overview

GC-1808M is a high density, versatile professional receiver launched by GOSPPELL. It offers eight channels of DVB-S/S2 (or DVB-C/ISDB-T) RF reception & demodulation, BISS decryption, TS re-multiplexing and scrambling, and MPTS/SPTS over UDP/IP output. The GC-1808M adopts GOSPPELL’s flexible licensing mechanism for BISS decryption and TS scrambling function. The service provider can easily enable BISS decryption, TS scrambling functions and up to four DVB SimulCrypt CAs by importing the license file which is provided by GOSPPELL.

Main Features

- Up to 8 channels of DVB-S/S2 (or DVB-C/ISDB-T) reception and demodulation
- Supports transport stream multiplexing, PSI/SI processing
- Supports BISS mode 1 decryption
- Optional up to four DVB SimulCrypt CAs and DVB-CSA scrambling
- Supports up to 3Mbps of EMM bandwidth and scrambling up to 256 programs
- MPEG TS-over-UDP/RTP output, supporting SPTS/MPTS
- Supports up to 244 TS outputs over the 100/1000Base-T Ethernet
- Supports two ASI outputs
- Able to process a maximum of 16 output transport streams and 512 programs
- Supports SD and HD programs, PID mapping
- Real-time bit rate statistics and program information analysis
- Front panel control and LCD display
- Auto-save of user configuration for the recovery of previous working status
- Easy-to-use Web/SNMP-based management for convenient local and remote management and control
## Technical Specifications

### RF Input Options
- **Satellite Input Option**
  - **Number of Inputs**: 8 x L-band Input
  - **Standards**: DVB-S (EN300421), DVB-S2 (EN302307)
  - **Constellations**: DVB-S: QPSK, DVB-S2: QPSK/8PSK
  - **Frequency Range**: 950MHz to 2150MHz
  - **Input Signal Level**: -65 to -25dBm
  - **LNB Power Output**: 0V/DC 13V/18V, I_max=400mA
  - **Connector Type**: F-Type (Female, 75Ω)

### Cable Input Option
- **Number of Inputs**: 8 x RF Input
- **Connector Type**: F-Type (Female, 75Ω)
- **Standards**: DVB-C (EN300429)
- **Constellations**: 16/32/64/128/256 QAM
- **Frequency Range**: 50MHz to 860MHz
- **Input Signal Level**: -20 to +20dBm (64QAM)

### Terrestrial Input Option
- **Number of Inputs**: 8 x RF Input
- **Connector Type**: F-Type (Female, 75Ω)
- **Standards**: ISDB-T/Tb (ARIB STB B-31)
- **Frequency Range**: VHF: 174-216 MHz, UHF: 470-860 MHz
- **Channel Bandwidth**: 6/7/8MHz
- **Constellations**: 16QAM, 64QAM
- **Guard Interval**: 1/32, 1/16, 1/8, 1/4
- **FEC**: 1/2, 2/3, 3/4, 5/6, 7/8
- **Carrier Mode**: 2k, 4k, 8k

### DVB-ASI Output
- **Numbers of ASI**: 2 x ASI Output
- **Connector Type**: BNC (Female, 75Ω)
- **Data Format**: 188/204 Bytes MPEG-TS packet length
- **Bit Rate**: 1.5 to 100Mbps each

### TS-over-IP Output
- **Numbers of Output**: 1 x 100/1000 Base-T Ethernet
- **Connector**: RJ-45
- **TS Format**: 7 x 188Byte
- **IP Encapsulation**: MPEG TS-over-UDP/RTP
- **MEPG TS Mode**: MPTS or SPTS
- **Number of Output**: TS 244 TS(max.)
- **Addressing**: Unicast or Multicast
- **Supported Protocol**: UDP, RTP, ARP, ICMP, IGMP

### BISS Decryption Option
- **BISS Modes**: Mode 0, Mode 1
- **Decryption Capability**: Up to 100 Session Words(SWs)
TS Multiplexing
Capacity of Multiplexing Up to 16 Transport streams
Up to 512 programs
Operation Mode TS Pass through or Multiplexing
PCR Auto correction
PSI PSI auto-generation, manual insertion
PID Remapping, filtering and pass-through
PSI/SI Standards ISO/IEC 13818-1
DVB SI(ESI EN300468)
Real-time Statistics TS rate, program rate, PID rate
Others Smart search of programs

TS Scrambling Option
Capacity of Scrambling Up to 256 programs
Scrambling Algorithm Comply with DVB-CSA
Numbers of CAS Optional up to four DVB SimulCrypt CA(s)
CAS Interface Protocol TCP/UDP (via NM interface)
EMM Bandwidth Up to 3 Mbps per TS
Scrambling Rate Up to 60 Mbps per QAM channel
Scrambling Level Program-level

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

Miscellaneous
Front Panel 3.5” LCD with 6 x Control Buttons for 2-line alphanumeric display
and settings 3 x LED indicator, 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 90 - 250 VAC, 50/60Hz
Power Consumption 70W(Maximum)

Environmental
Operating Temperature 0°C to 45°C(32°F to 113°F)
Storage Temperature -20°C to 80°C(-4°F to 176°F)
Operating Humidity 90%, non-condensing

Mechanical
Product Dimensions 483mm x 44.5mm x 400mm
(W x H x D) 19” ’ x 1.73’ ’ (1 RU) x 15.8’ ’
Product Weight 5Kg (11 lbs)