

# SD/HD Receiver/Decoder

## DSR-180QAM

# GEOSATpro



## OVERVIEW

The DSR-180QAM is a powerful and cost-effective broadcast level decoder. It supports DVB-S/S2 signal receiving and MPEG2/MPEG4 SD/HD program decoding with two audio channels. With a remote, web-based management interface, it is ideal to support advanced content distribution, real-time signal conversion and transmission for any headend system.

Download User Manuals at [GEOSATpro.com/manuals](http://GEOSATpro.com/manuals).

## ORDERING INFORMATION

Module	Feature
DSR-180QAM	Decode MPEG2/4, HD&SD w/DVB-S2, ASI and IP In and A/V, HDMI, SDI and QAM Out and 608CC support

## KEY FEATURES

- RF inputs support multiple standards of signal receiving including DVB-S/S2
- Supports TS-IP input and redundancy
- VBI subtitle insertion on analog video
- PSI/SI processing and regeneration
- Supports TS & EIT pass-through
- MPEG2 or MPEG4 HD/SD video decoding
- HDMI and A/V output
- SD/HD SDI output with 2 embedded audios
- 1 audio decoding through AES/EBU digital audio output, 2 pairs of balanced and unbalanced analog audio output
- Multicast and unicast broadcast in LAN and WAN network
- GPI alarm and cue tone output
- 4 channels QAM or 2 channels OFDM output
- 1 Ethernet 10/100Base-TX, RJ45
- Web-based user interface
- Front panel keypad and LCD
- SNMP supported for system integration

## SPECIFICATIONS

### DVB-S/S2 INPUT

Input.....	1 or 2 x RF (F-type) 75Ω
Constellation.....	QPSK, 8PSK
Symbol Rate.....	1~45 Msps
Input Frequency.....	950~2150 MHz
Max bitrate.....	150Mbps
Signal Level.....	-65~-25 dBm
LNB PS.....	DC 13/18V
22K Switch.....	on/off

### TS/IP

Interface.....	GbE level RJ45 Port
Speed.....	<1,000Mbps
Package Format.....	UDP and RTP (auto detection)
Traffic Types.....	Unicast: (ARP) Multicast: V2, V3 (optional)
FEC.....	ProMPEG CoP3v2
TCI/IP Protocol.....	IPv4, IPv6 (future option)

### DVB-ASI

Interface.....	4 BNC, 75Ω (2 x ASI input, 2x ASI output)
Max Bitrate.....	100 Mbps
Packet Type.....	188/204 Bytes
Input Mode.....	byte and burst
Output Mode.....	byte and burst

### DVB-C MODULATION

Standard.....	ITU-T J.83 Annex A/C, Annex B
Constellation.....	16/32/64/128/256QAM
Symbol Rate.....	4.4~6.952MBAud
Output Level.....	90~114dBuV (depending on channel #)
Frequency Range.....	48~862 MHz
EMR.....	38

### VIDEO DECODING

Decoding Format.....	MPEG2 SD 4:2:0 MP@ML MPEG2 HD 4:2:0 MP@ML MPEG4 AVC SD MP@L3 MPEG4 AVC HD MP@L4.0/HP@4.0
----------------------	---

### AUDIO DECODING

Audio Format.....	MPEG1 Layer II Dolby Digital (AC-3) Dolby Digital Plus (E/AC-3) AAC (MPEG2, MPEG4/HE v1,2, MPEG4/LC)
Adjustable Volume Level.....	-63~0dB

### INPUT

Video.....	H.264 (MPEG4 part 10) or MPEG2
Video Format.....	Up to 1080p30
Aspect Ratio.....	4:3, 16:9, auto

Audio.....	MPEG1 Layer I/II MPEG2 Layer II Dolby Digital(AC-3) (optional) AAC (optional)
Audio Mode.....	Stereo, Dual Mono, Single Mono

### OUTPUT

Interfaces.....	HDMI and SDI
Video.....	H.264(MPEG4 part 10) 4:2:0 MP@L4 MPEG2 4:2:0 MP@ML 576i, 480i (BT.656)
Resolution.....	1080i50, 1080i60, 1080i59.94, 1080p60, 720P50, 720P60, 720P59.94
Audio.....	MPEG1 Layer-I/II AAC (optional) Passthrough
Subtitle and Audio.....	Passthrough
Bitrate.....	MPEG2 video: 2.0~15Mbps(CBR & VBR) Audio: 64~384Kbps MPEG4 Video: 1.0~20Mbps(CBR & VBR) Audio: 64~384Kbps
Adjustable Volume.....	-63~0dBm

### PHYSICAL & ENVIRONMENT

Input Voltage.....	100 ~ 240 VAC
Power Consumption.....	Approx. 40W
Rack Space.....	1 RU
Dimensions (WxHxD).....	19"x1.7"x17.3"
Operating Temperature.....	0° C to 50° C
Storage Temperature.....	-10° C to 70° C
Operating Humidity.....	<95%
MTBF.....	>150,000 hours

# GEOSATpro

Satellite AV, LLC / Glorystar Satellite Systems  
8801 Washington Blvd. Suite 101  
Roseville, CA 95678

888.483.4673 x8203 | 916.218.7879 x8203  
fax 916.644.6312 | eugene@satelliteav.com  
www.satelliteav.com | www.glorystar.tv