

MPEG-2/MPEG-4 Receiver

Model D9887 HDTV Modular Receiver

Description

The Model D9887 HDTV Modular Receiver is designed to receive broadcasts using MPEG-2 4:2:0 or MPEG-4 Part 10* 4:2:0 digital

compression technology. It is ideally suited for decoding digitally compressed signals for primary distribution and contribution applications. With modular inputs and outputs, the D9887 receiver can be configured to suit the specific needs of your application. An optional IP input and output interface is available for IPTV applications.



Secured Broadcast Reception

Availability of optional BISS conditional access (CA) with modes 1 and E help provide protected distribution of video, audio and/or data broadcasts to multiple locations. Contact Scientific Atlanta for availability of BISS for your configuration.

Key Features

- Single or dual decoder configuration
- Choice of MPEG-2/DVB 4:2:0 or MPEG-4 4:2:0 video decoding
- HDTV support for 1080i @ 25, 29.97, 30 fps, 720p @ 50, 59.94, 60 fps and 480p @ 59.94 fps
- SD support for 480i @ 29.95 fps and 576i @ 25 fps
- 1-81 Mbps decodable video bit rate dependent on video decoder option
- 1-160 Mbps transport data rate dependant on selected input options
- Video resolution interpolation (letter box, cropped or anamorphic)
- Configured and controlled via front panel LCD
- Two analog stereo outputs per program
- SNMP control and monitoring
- ROSA[®] Network Management (NMS) support
- Web-based management (10/100 BaseT)

Optional Features

- Four-channel audio output with Dolby[®] Digital passthrough and Dolby[®] E dependent on video decoder option
- DVB-S QPSK input
- DVB-S2 QPSK, 8PSK input
- 8-VSB/QAM input
- DVB-T input
- MPEG over IP input/output with support for UDP, RTP and ProMPEG
- SD-SDI or HD-SDI video outputs with embedded audio
- Basic Interoperable Scrambling System (BISS) CA
- ASI input and output
- Genlock for MPEG-2/DVB 4:2:0

* See the AVC/MPEG-4/H.264 product license notice on the last page.

Specifications

Feature	Description	
System	MPEG-2/DVB compatible	
Video Decoding	MPEG-2 4:2:0, SD or HD MPEG-4 part 10, SD or HD	Genlock (4:2:0 optional) PAL/NTSC (Black & Burst) HD Tri-level
Transport Stream Inputs and Outputs	<p>DVB Satellite – DVB-S (Option) Modulation: QPSK Frequency Range: 950 MHz to 2150 MHz Symbol Rate Range: 1.0 to 45 Msymbols/s Switchable dual RF input, unpowered</p> <p>DVB Satellite – DVB-S2 (Option) Modulation: QPSK and 8PSK Frequency Range: 950 MHz to 2150 MHz Symbol Rate Range: QPSK: 1-36 MS/s 8PSK: 1-30 MS/s Switchable dual RF input, unpowered</p> <p>DVB-T (Option) Modulation: QPSK, QAM16 and QAM64 Frequency Range: 49 MHz to 861 MHz Channel Bandwidth: 6 MHz, 7MHz and 8 MHz Switchable dual RF input</p> <p>8-VSB/QAM (Option) Frequency Range: 50 MHz to 850 MHz CATV Offsets: FCC, IRC, HRC Channel Bandwidth: 6 MHz QAM Mode: 64 and 256</p>	<p>ASI Input (Option) Interface: copper BNC TS bit rate: up to 160 Mbps</p> <p>ASI Output (Option) Interface: Copper BNC TS bit rate: up to 160 Mbps</p> <p>MPEG over IP Input (Option) Physical: 10/100/1000BaseT & SFP Protocols: UDP, RTP, ProMPEG COP #3, IGMP v2 & v3 TS bit rate: up to 55 Mbps</p> <p>MPEG over IP Output (Option) Physical: 10/100/1000Base-T & SFP Protocols: UDP, RTP, ProMPEG COP #3, IGMP v2 & v3 TS bit rate: up to 55 Mbps</p>
Video and Audio Outputs	<p>Video Analog Video Interfaces: 1 composite or 1 component/RGB in conjunction with HD or SD SDI interfaces, or 1 composite and 1 component/RGB without the SDI interface</p> <p>Digital video interfaces: 2 x SD-SDI with embedded audio. 2 x HD-SDI with embedded audio. EIA-608B closed caption support for MPEG-2 SD EIA-708B closed caption support for MPEG-2 HD</p>	<p>Audio Analog Audio: up to 2 balanced stereo pairs Digital audio: SPDIF/AES-3id Embedded in SDI: up to 2 stereo pairs Mode: stereo, joint stereo, single channel Max output level: +27 dBu analog, 0 dbFs digital Audio Codecs: MPEG and Dolby Digital (AC-3) Dolby Digital passthrough and Dolby E</p>
Conditional Access	DVB Descrambling (Option) BISS Mode-1 BISS-E	
Environmental/Physical	Operating Temperature: 0°C to 50°C (32°F to 122°F) Humidity: less than 95% non-condensing	Physical Dimensions: 1.75 in. H x 19.0 in. W x 19.0 in. D (4.4 cm H x 48.3 cm W x 48.3 cm D) Weight: 13.0 lbs (5.9 kg)
Power	Voltage Range: 95 - 135 V and 180 - 265 V AC Line Frequency: 50/60 Hz Power Consumption: 200 W maximum	

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Examples of Rear Panel Configurations

4015834



4015733, 4015734



4011030, 4015732, 4015738, 4015739, 4015741



4015740, 4015742



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Ordering Information

Part Number	4:2:0 MPEG 2	4:2:0 MPEG2 w/Gen	4:2:0 MPEG 4	DVB-S Input	DVB-S2 Input	ASI Input	ASI Output	IP Input/Output	SDI	DVB-T or 8VSB	Analog/AES Audio	Dual Decoder
4015732	√		√	√		√	√		HD		√	
4015733	√	√				√	√	√	HD		√	
4015734	√		√			√	√	√	HD		√	
4015738	√	√		√	√	√	√		HD		√	
4015739	√	√		√		√	√		HD		√	
4015740	√		√	√	√	√	√		SD		√	
4015741	√		√	√	√	√	√		HD		√	
4015742	√		√	√		√	√		SD		√	
4015831	√		√			√		√	SD			
4015832	√		√	√	√				HD			
4015833	√		√			√			SD		√	
4015834	√		√			√			HD		√	
4015835	√		√			√	√	√	SD		√	
4016277	√		√			√	√		SD	DVB-T	√	
4016278	√		√			√	√		HD	DVB-T	√	
4016425	√		√			√	√		SD		√	
4016527	√		√	√	√				HD/HD		2	Split ¹
4017462	√		√			√			Analog only SD/HD		√	
4017463	√		√	√	√				HD		√	
4017518	√		√					√	SD		√	
4017561	√		√		√			√	SD/HD		√	√
4017562	√		√	√	√			√	HD			
4017563	√		√	√	√	2	2		HD		√	Split ¹
4017564	√		√	√	√	√	√		SD/HD		√	√
4017565	√		√	√	√	√	√	√	SD/HD		√	√
4020046	√		√			√	√		HD	8VSB	√	
4020047	√		√			√	√		SD	8VSB	√	
4020635	√		√	√	√	2	2		SD		√	Split ¹
4021713	√		√			2	2		HD/HD	8VSB	2	Split ¹
4021714	√		√			2	2		SD/SD	8VSB	2	Split ¹
4022560 With BISS-1/E	√		√	√	√	√	√		SD		√	
4023806						√	√			8VSB		
4024627	√		√			2	2		Analog only 2 SD/HD	8VSB	2	Split ¹
4024725	√					2	2		Analog only 2 SD/HD	8VSB	2	Split ¹
4024626	√		√			2	2		HD		√	
4024891	√					√	√		SD/HD	8VSB	√	√
4024892	√	√				√	√		SD/HD	8VSB	√	√

1 Split indicates a split backplane where each decoder if populated functions independently

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Part Number 7010584 Rev H
January 2008