

Decoder

Model D9844 Commercial Decoder

Description

The Model D9844 Commercial Decoder is designed to receive broadcasts using MPEG-2 4:2:0 digital compression technology. It is ideally suited for decoding digitally compressed signals for further distribution into direct-to-home networks. Optional IP input or output interfaces provide for next generation network architecture integration.



Secured Broadcast Reception

Availability of BISS modes 1 and E provides protected distribution of video, audio and/or data broadcasts to multiple locations. To further support interoperability, DVB-CI allows the receiver to be used in different broadcast networks with the most common conditional access (CA) systems.

Key Features

- Single or dual decoder configuration
- MPEG-2/DVB 4:2:0 video decoding
- NTSC, PAL B/G/I/M/N/D, SECAM L/B/G/K1 video formats
- Video resolution interpolation (Pan-Scan, letter box or pass-through)
- Aspect ratio conversion (4:3, 16:9)
- Configured and controlled via front panel LCD
- Supports Basic Interoperable Scrambling System (BISS) conditional access
- Two analog stereo outputs per program
- VBI re-insertion of WST, WSS, VPS, VITC, CC, AMOL I, AMOL II
- EBU Teletext and DVB subtitling
- Redundancy support via two General Purpose Indicator (GPI) contact closures
- SNMP control and monitoring
- Web-based management (10/100 Base-T)
- Two-slot, DVB-CI common interface

Optional Features

- Dolby® Digital (AC-3) downmixing (left and right channels)
- DVB-S QPSK input
- ASI input
- Dual ASI outputs
- MPEG over IP input (without FEC)
- Link and source redundancy for IP inputs
- MPEG over IP output (without FEC)
- MPE IP Data output
- Two SDI outputs with embedded audio and VBI
- Two AES/EBU digital audio outputs per program
- Second video decoder with two audio outputs

Specifications

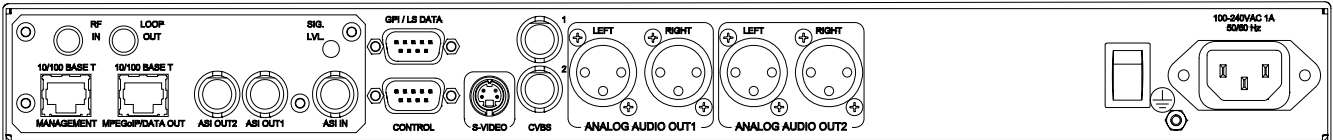
Feature	Description	
System	MPEG-2/DVB compatible	
Transport Stream Inputs and Outputs	<p>DVB Satellite – QPSK Frequency Range: 950 MHz to 2150 MHz Symbol Rate Range: 1.0 to 45 Msymbols/s L-band RF input with LNB control and loop-through output</p> <p>MPEG over IP Input TS bit rate: up to 44 Mbps</p> <p>MPEG over IP Output TS bit rate: up to 44 Mbps</p>	<p>ASI Input Interface: copper BNC TS bit rate: up to 100 Mbps (byte and burst mode)</p> <p>Dual ASI Outputs Interface: copper BNC TS rate: up to 100 Mbps (byte mode) Options: Input with selected program decrypted, loop-through of input stream</p>
Video and Audio Outputs	<p>Video Analog video interfaces: up to 3 composite, 1 S-video Digital video interfaces: 2 x SDI with embedded VBI and stereo channels Video formats: PAL-B/G/I/M/N/D, NTSC, SECAM L/B/G/K1 Decoding: 4:2:0 MP@ML (1.5 to 15 Mbps) Video resolution interpolation: Pan-Scan, letter box or pass-through Aspect ratio: 4:3, 16:9 Graphic processing: DVB subtitling, EBU (teletext) subtitling</p>	<p>Audio Analog Audio: up to 4 balanced stereo pairs Digital audio: up to 4 unbalanced outputs (BNC) Embedded in SDI: up to 4 stereo pairs Mode: stereo, joint stereo, dual channel, single channel Max output level: +18 dBu analog, 0 dBFs digital Gain control: -64 dB to 0 dB / mute Dolby® Digital 2.0 decoding</p>
Conditional Access	<p>DVB Descrambling BISS Mode-1 BISS-E</p>	<p>DVB-CI Interface: 2 CI slots – EN 50221 CA Method: Multicrypt, Simulcrypt CAS: Irdeto, Viaccess, Cryptoworks, Conax, MediaGuard, Nagravision, OnDigital, CODICrypt, VideoGuard Note: Viasat (uses NDS/VideoGuard) only authorizes decoders equipped with an ASI output to receive/decrypt Viasat-encrypted programs.</p>
VBI Re-insertion	In composite video and embedded in SDI WST teletext and inverted teletext	Enhanced VITS with built-in generator WSS, VPS, VITC, AMOL I, AMOL II, CC
Data Outputs	IP data (EN 301 192)	
Environmental/Physical	Operating Temperature: 0°C to 50°C (32°F to 122°F) Humidity: 5% to 90% non-condensing	Physical Dimensions: 1.75 in. H x 19.0 in. W x 14.0 in. D (4.4 cm H x 48.3 cm W x 35.6 cm D) Weight: 7.7 lbs (3.5 kg)
Power	Voltage Range: 100 V to 240 V AC Line Frequency: 50/60 Hz	Power Consumption: 50 W max. LNB Power on satellite input: +13 V/+18 V @ 350 mA max.

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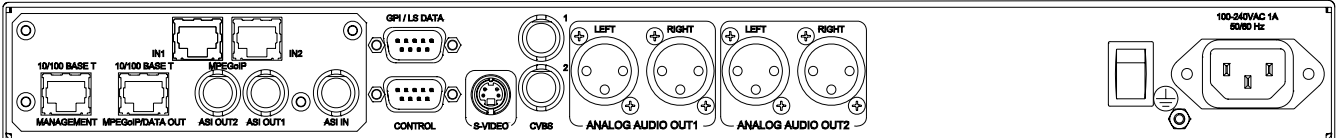
Rear Panel Configurations

Single Decoders

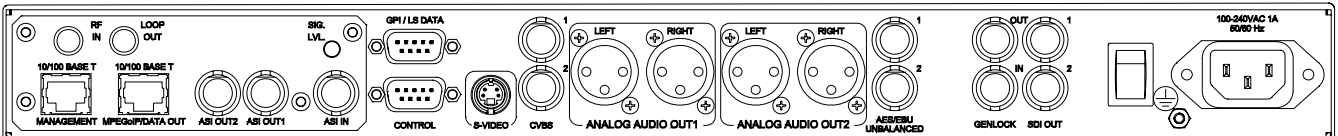
4012444 and 4012746



4012445 (shown with MPEG over IP Input)



4012448 and 4013196



Ordering Information (see examples above)

Factory-configured units

Part Number	DVB-S Input	MPEG over IP Input w/o FEC	ASI Input	Dual ASI O/Ps	IP Data & MPEG over IP Output	Genlock	SDI Outputs	1 st /2 nd AES/EBU Outputs	Dolby Digital (AC-3) Downmixing
4012444	√			√					√
4014373	√		√	√					√
4012445		√		√					√
4013490	√				√				√
4012746	√			√	√				√
4012446		√		√			√	√	√
4012447		√		√		√	√	√	√
4012448	√		√	√	√		√	√	√
4013196	√		√	√			√	√	√
4014372	√								
4017834	√			√			√	√	
4017835			√				√	√	
4019410	√				√		√		
4019411			√				√		
4019412			√		√		√		
4019448	√						√		

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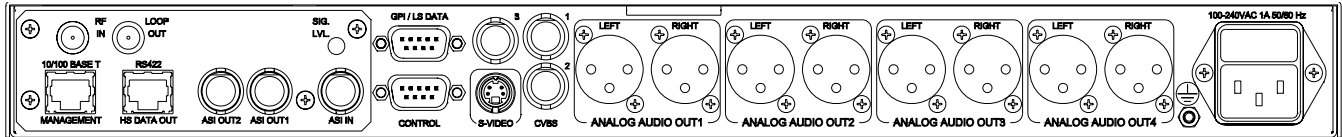


Optional Software Licenses (for delivered D9844 Single decoders)

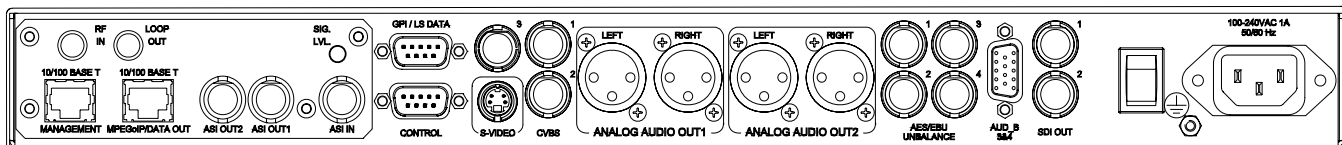
Part Number	License
4016676	Link and source redundancy for dual IP inputs

Dual Decoders

4012449



4012451



Ordering Information (see examples above)

Part Number	DVB-S Input	MPEG over IP Input w/o FEC	ASI Input	Dual ASI O/Ps	IP Data & MPEG over IP Output	Genlock	SDI Outputs	3 rd /4 th Analog Stereo Outputs	1 st /2 nd AES/EBU Outputs	3 rd & 4 th AES/EBU Outputs
4012449	√							√		
4012450		√						√		
4012451		√					√	√	√	√

Optional Software Licenses (for delivered D9844 Dual decoders)

Part Number	License
4016676	Link and source redundancy for dual IP inputs



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