

Cisco D9865 Satellite Receiver

Product Overview

The Cisco D9865 Satellite Receiver is designed for satellite content distribution, and targets the broadcast, business TV, private networks and SMATV environment. The receiver offers the capability to receive digitally encrypted video, audio, VBI and data. It provides a cost-effective, variable-rate solution to transition existing DVB-S/MPEG-2 services to DVB-S2/MPEG-4. Additional features include IP data and RS-232 utility data.

Figure 1. Cisco D9865 Satellite Receiver



Ease of Use

The unit is set up via the on-screen display menu, using a handheld infrared remote control, or navigation keys on the front panel of the receiver. User-editable presets are provided for quick re-tuning to other broadcasts. The receiver also supports a Web interface and SNMP control via the Ethernet port as an option.

Free-to-air Reception

This receiver is capable of receiving a DVB/MPEG compliant free-to-air broadcast.

Secured Broadcast Reception

Supporting the PowerVu conditional access with DES or DVB de-scrambling, or DVB Conditional Access Module (CAM) based DVB CA systems, this receiver can be used to receive secured corporate communication of video, audio and/or data broadcast. It can also be used for secured delivery of TV programming to hotels, MDUs, homes & commercial establishments such as restaurants, stores, etc.

Data Outputs

Data outputs can be used for distribution of documents, price lists, and video files, etc. Utility data (RS-232) can be used for smaller file transfer at a slower speed. DVB MPE IP data via an Ethernet interface allows for connection to a local area network for larger file transfer and/or communication with multiple network clients.

Features

- DVB-S QPSK, DVB-S2 QPSK/8PSK demodulation
- Variable QPSK symbol rates from 1 to 45 Msymbols/s for DVB-S and DVB-S2
- PowerVu conditional access with DES & DVB de-scrambling
- CAM interface hardware for DVB CAM-based descrambling
- 4:2:0 High Definition MPEG-2 and MPEG-4 AVC decoding
- 4:2:0 Standard Definition MPEG-2 and MPEG-4 AVC decoding
- 4:2:0 NTSC & PAL (B/G/I/D/M/N) video decoding
- MPEG, Dolby® Digital (AC-3), HE-AAC and Dolby Digital Plus audio decoding
- DVB Subtitling and DVB VBI (WST, WSS, VPS)
- One unbalanced stereo pair of audio outputs
- Line 21 closed caption and V-chip support
- Fingerprint Trigger
- Service Replacement
- Field upgradeable software and security
- Front panel 4-digit LED for channel display
- On-screen display menu for setup and status
- User-editable preset configurations

Optional Features

- Electronic Program Guide support
- HDMI and Component video outputs for HDTV (D9865H and D9865D only)
- Dual Ethernet 10/100BaseT for IP data, Web interface, SNMP control (D9865D only)

Anticipated Future Software Features

- MPE data support and Web GUI (D9865D only)
- RS-232 low-speed data (D9865D only)
- CAM Interface software (D9865B and D9865D)

Specifications

Table 1. Product Specifications

Parameter	Value
System	
MPEG-2/DVB Compatible EN300 421, EN 300468	
Demodulation	DVB-S QPSK, DVB-S2 QPSK & 8PSK
Tuner	
Number of RF Inputs	1
Input Level	-25 dBm to -65 dBm per carrier
Frequency Range	950 MHz to 2150 MHz
Symbol Rate Range	DVB-S: 1.0 to 45 MSymbols/s DVB-S2: 1.0 to 45 MSymbols/s
Satellites	C-band and Ku-band
Input Impedance	75 Ω
Analog Video Output	
Number of Channels	One
Connector Type	RCA
Video Decompression Type	MPEG-2 4:2:0. MPEG-4 4:2:0
Level	1.0 V pp \pm 10%
Video Standard	NTSC & PAL B/G/I/D/M/N, supports HD downconversion
Digital Audio/Video Output (future)	
Number of Outputs	One HDMI digital audio/video output, supports SD-to-HD upconversion
HD Analog Video Output (future)	
Number of Outputs	One component (Y, Pb, Pr) HD analog video output
Analog Audio Output	
Number of Channels	One stereo pair/two mono channels
Connector Type	RCA
Output Level	Unbalanced, 2 V rms \pm 10% at 0 dBFS
Audio Decompression	MPEG 1 Layer 2, Dolby Digital (AC-3), Dolby Digital Plus, HE-AAC
Digital Audio S/PDIF Output	
Connector Type	RCA
VBI	
NTSC	Lines 10 to 22 fields 1 and 2
PAL	Lines 7 to 22 fields 1 and 2 WST, WSS, VPS
Data Outputs (future)	
RS-232 asynchronous data	
Rates	300, 1200, 2400, 4800, 9600, 19,200, 38,400 b/s
Ethernet Output for IP data	
Connector	RJ-45, 10/100BaseT
Rates	Up to 10 Mbps
Environmental Specifications	
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage	-20°C to 70°C (-4°F to 158°F)

Parameter	Value
Chassis Mechanical Specifications	
Height	2.36 in. (6.0 cm)
Width	11.69 in. (29.7 cm)
Depth	7.68 in. (19.5 cm)
Weight	5 lbs (2.3 kg)
Power	
Voltage Range	100 V to 240 V AC
Line Frequency	50/60 Hz
Power Consumption	35 W max.
LNB Power on satellite input	+13 V/+18 V @ 350 mA max.

Figure 2. D9865B Satellite Receiver Rear Panel (Base unit – Standard Definition Video Decoding)

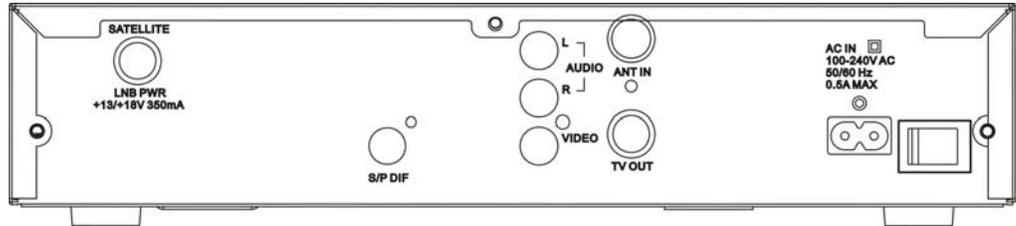


Figure 3. D9865H Satellite Receiver Rear Panel (Base SD and HD output version)

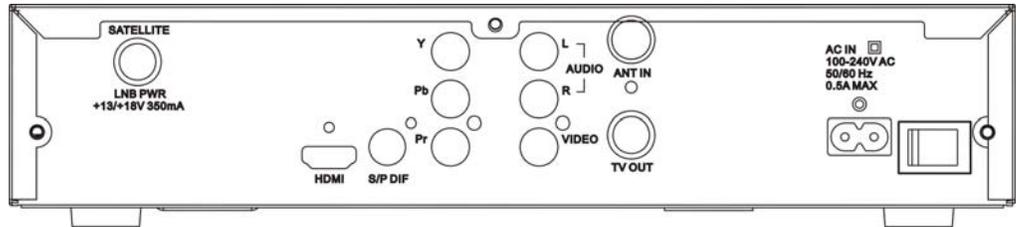
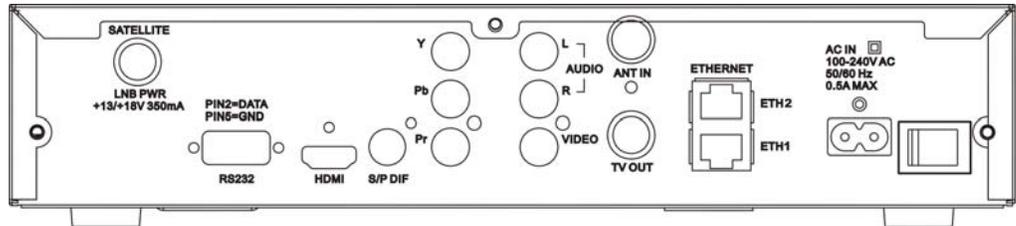


Figure 4. D9865D Satellite Receiver Rear Panel (Full-featured with HDMI and Data)



Ordering Information

Table 2. Ordering Information

Cisco D9865 Satellite Receiver	Part Number
D9865B (Base version with SD only outputs/HD Downconversion)	
NTSC CH3/4 Modulator with NA cord	402865100001
PAL UHF CH21-69 modulator with Euro plug	4028651020005
PAL UHF CH21-69 modulator with no power cord (select from below)	4028651020000
D9865H (Base SD and HD output version)	
NTSC CH3/4 Modulator with NA cord	4028651040001
PAL UHF CH21-69 modulator with Euro plug	4028651060005
PAL UHF CH21-69 modulator with no power cord	4028651060000
D9865D (SD and HD output version with data interfaces)	
NTSC CH3/4 Modulator with NA cord	4028651120001
PAL UHF CH21-69 modulator with Euro plug	4028651140005
PAL UHF CH21-69 modulator with no power cord (select from below)	4028651140000
Power Cords	
UK power cord	1002798
Euro power cord	503414
Australia power cord	1002604
Argentina power cord	1002655
Brazil power cord	1003648
China power cord	1003670
India power cord	1003667



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Part Number 7016667 Rev B

July 2009