

Cisco D9865 Satellite Receiver

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 ability 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. It also supports MPE IP 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 using 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 descrambling, or with DVB Conditional Access Module (CAM) based DVB CA systems, this receiver can be used to receive secured corporate communication of video, audio, and data broadcast. It can also be used for secured delivery of TV programming to hotels, MDUs, homes, and commercial establishments such as restaurants and stores.

Data Outputs

Data outputs can be used for distribution of electronic documents, such as price lists and video files. DVB MPE IP data via an Ethernet interface allows for connection to a local area network for larger file transfer or communication with multiple network clients.

Features

- DVB-S QPSK, DVB-S2 QPSK/8PSK demodulation
- Symbol rate from 1.0 to 45 MS/s for DVB-S and from 1.0 to 31 MS/s for DVB-S2
- PowerVu[®] conditional access with DES and DVB descrambling
- CAM interface hardware for DVB CAM-based descrambling
- 4:2:0 High Definition (HD) MPEG-2 and MPEG-4 AVC decoding
- 4:2:0 Standard Definition (SD) MPEG-2 and MPEG-4 AVC decoding
- 4:2:0 NTSC and PAL (B/G/I/D/M/N) video decoding
- MPEG, Dolby[®] Digital, and HE-AAC 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
- Front panel 4-digit LED for channel display
- On-screen display menu for setup and status
- User-editable preset configurations
- MPE data support and Web GUI (D9865D only)
- CAM Interface software
- Dolby Digital Plus

Optional Features

- HDMI and component video outputs for HDTV (D9865H and D9865D only)
- Ethernet 10/100BaseT for IP data, Web interface, SNMP control (D9865D only)

Specifications

Table 1. Product Specifications

Parameter	Value
System	MPEG-2/DVB Compatible EN300 421, EN 300468, H.264
Demodulation	DVB-S QPSK, DVB-S2 QPSK and 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 31 MSymbols/s
Satellites	C-band and Ku-band
Receiver Spectrum Sense	Normal and Inverted
Input Impedance	75 Ω
Analog Video Output	
Number of Channels	1
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 and PAL B/G/I/D/M/N, supports HD down-conversion
Digital Audio/Video Output (D9865H and D9865D only)	
Number of Outputs	1 HDMI digital audio/video output, supports SD-to-HD up-conversion
HD Analog Video Output (D9865H and D9865D only)	
Number of Outputs	1 component (Y, Pb, Pr) HD analog video output
Analog Audio Output	
Number of Channels	1 stereo pair or 2 mono channels
Connector Type	RCA
Output Level	Unbalanced, 2 V rms \pm 10% at 0 dBFS
Audio Decompression	MPEG 1 Layer 2, 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	
Ethernet Output for IP data	
Connector	RJ-45, 10/100BaseT
Environmental Specifications	
Operating Temperature	0 - 50°C (32 - 122°F)
Storage	-20 - 70°C (-4 - 158°F)
Chassis Mechanical Specifications	
Height	2.36 in. (6.0 cm)