

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) |

| Parameter | Value |
|------------------------------|---------------------------|
| 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 VAC |
| Line Frequency | 50/60 Hz |
| Power Consumption | 35 W max. |
| LNB Power on satellite input | +13 V/+18 V @ 350 mA max. |

Figure 2. Cisco D9865B Satellite Receiver Rear Panel (Base unit – SD Video Decoding)

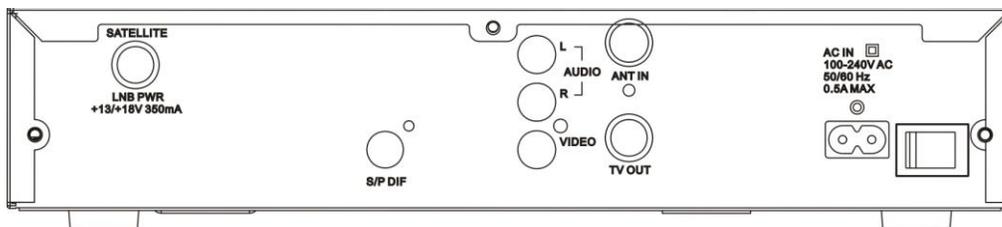


Figure 3. Cisco D9865H Satellite Receiver Rear Panel (Base SD and HD output version with HDMI)

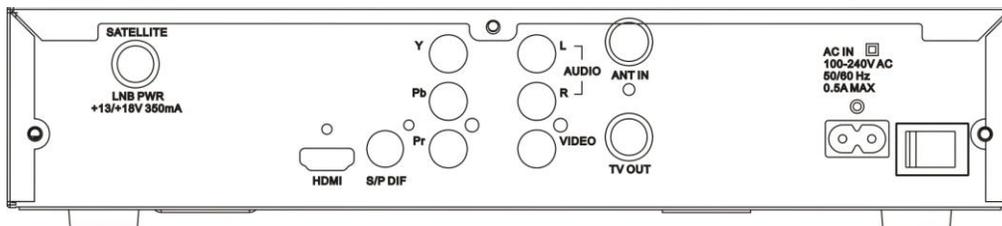
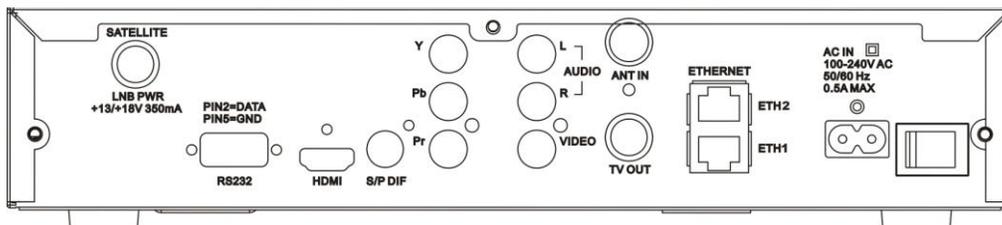


Figure 4. Cisco D9865D Satellite Receiver Rear Panel (Full-featured with HDMI and Data)



Ordering Information

Table 2. Ordering Information

| Cisco D9865 Satellite Receiver | Part Number |
|--|---------------|
| D9865B (Base version with SD only outputs/HD Down-conversion) | |
| NTSC CH3/4 Modulator with NA cord | 4028651000001 |
| 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 |

| Cisco D9865 Satellite Receiver | Part Number |
|--|---------------|
| 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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