

## Cisco Z70DVB Digital Broadcast Set-Top

### Product Overview

The Cisco Z70DVB™ Digital Broadcast Set-Top offers an affordable solution for broadcast digital audio and video services while at the same time allowing connection to an external modem (cable or DSL) for interactive services such as video-on-demand (VOD).

The set-top also enables network operators to expand their channel line-up, recapture valuable spectrum, and offer an Electronic Program Guide (EPG) and reservation pay-per-view (PPV) services—all without requiring an upgrade to their existing cable plant. The Z70DVB set-top is optimized for an affordable cost and offers a focused range of available features such as an expanded memory, a full-featured front panel, and a SIM card reader. The set-top is DVB®-C and MPEG-2 compliant and supports PAL video formats. With the SIM card reader, the Z70DVB set-top is also capable of supporting renewable security.

**Figure 1.** Cisco Z70DVB Set-Top



### Features

- Navigator, EPG, and setup menus:
  - Enable display of program information in a 2-hour by 5-hour channel grid format
  - Provide channel navigation and information about the current program and following program
  - Include parental control and selection of favorite channels
  - Support Reservation PPV using mobile SMS or telephone identification authorization
  - Include installation and user setting menus
- English language support
- Infrared remote control
- 10/100BaseT Ethernet output for connection to an external cable or DSL modem for interactive services on the set-top

Figure 2. Cisco Z70DVB Front Panel



Table 1. Front Panel Features

Feature	Description
Controls	7 Buttons: Power, Guide, OK, <Vol-, Vol+>, Ch->, Ch+>
Indicators	<ul style="list-style-type: none"><li>Green Power LED indicates when the unit is powered on and operating</li><li>Green Link LED indicates a linked connection to an external modem</li></ul>

Figure 3. Cisco Z70DVB Back Panel (Graphic may vary from actual product)



Table 2. Back Panel Features

Feature	Description
Connections In	Cable In, SIM card reader
Connections Out	TV Out, Audio Out L/R, Video Out, Ethernet
Power Input	DC 12V In

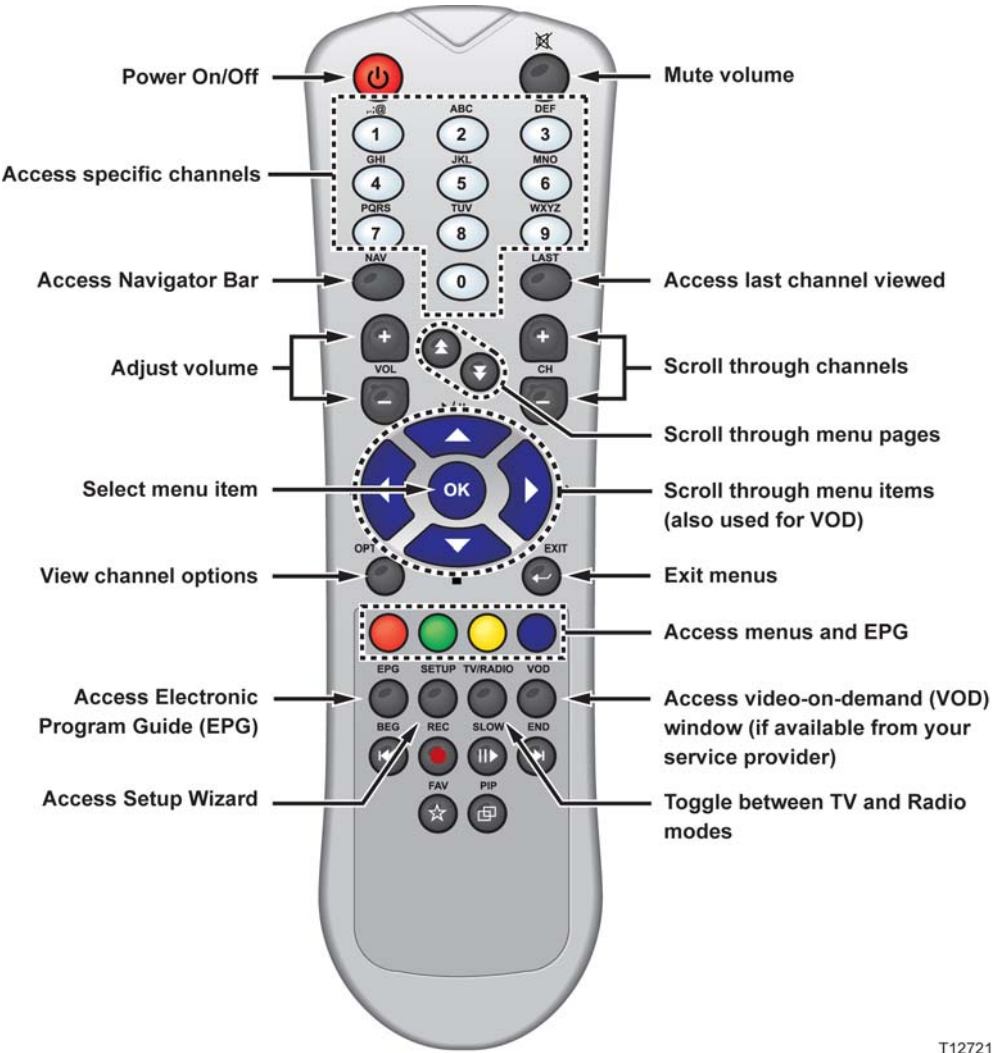
Product Specifications

Table 3. Product Specifications

Specification	Description
Audio/Video Outputs	
Inputs and Outputs	<ul style="list-style-type: none"><li>IEC 60169-2 female-type RF input</li><li>IEC 60169-2 female type RF output</li><li>Baseband video and audio left/right outputs</li><li>10/100BaseT Ethernet output</li><li>Connector for external power supply</li></ul>

Tuning and Decoding	
Digital Service Tuner	<ul style="list-style-type: none"> <li>Enables tuning and display of MPEG-2 (ISO/IEC 13818-2) and MPEG-1 (ISO/IEC 11172-2) digital video signals</li> <li>Enables tuning of digital audio MPEG-1 layers 1 and 2 (ISO/IEC 11172-3)</li> </ul>
Powerful Graphics Engine	<ul style="list-style-type: none"> <li>Enables high-resolution graphics up to 720 x 576 (PAL) while simultaneously scaling MPEG-2 video (scaled video in EPG)</li> <li>Supports 16-bit graphics to display up to 65,000 colors simultaneously</li> <li>Supports the following formats: RGB565, ARGB1555, and ARGB4444</li> <li>Supports Alpha blending, anti-aliasing, anti-flutter, and anti-flicker filters</li> <li>Includes hardware zoom in/out and bit-blitter functions for image manipulation and transition effects</li> <li>Supports aspect ratios of 4:3 and 16:9</li> </ul>
Memory/Storage	
Configurable Memory Sizes	Base model contains: <ul style="list-style-type: none"> <li>4 MB flash memory</li> <li>32 MB SDRAM</li> <li>4 KB EEPROM</li> </ul>
Processor	
Powerful 32-bit RISC Processor	200 MHz processor delivers fast tuning changes and on-screen response times
Security	
Internal Security Microprocessor	Provides hardware-assisted conditional access functions within a tamper-resistant package
SIM Card Reader	Supports third-party conditional access SIM cards as well as the ability to upgrade the native PowerKEY® security
Data Transmission and Tuner	
QAM 64 and 256 ITU J.83 Annex A/B/C Support	DVB-C (EN 300 429) compliant for QAM delivery and demodulation
UHF Output with RF Loop-Through	<ul style="list-style-type: none"> <li>When the set-top is in operating mode, analog channels are combined with the digital output</li> <li>When the set-top is in standby mode, the RF loop-through function allows the analog channels to bypass directly to the TV</li> </ul>
Conditional Access/Operating System	
PowerKEY Conditional Access System	<ul style="list-style-type: none"> <li>Secures digital services using symmetric encryption algorithm for content protection and strong authentication and digital signature for entitlement delivery</li> <li>Compliant with DVB (ETR 289) Common Scrambling Algorithm</li> </ul>
Power Supply	
Power Supply	External 90–270 VAC 50 Hz power supply with attached Indian plug
Accessories	
Accessory Cables (Optional)	<ul style="list-style-type: none"> <li>RF cable</li> <li>Baseband audio/video cable</li> </ul>
Dimensions	
Product Dimensions (HxWxD)	49 mm x 208 mm x 165 mm (1.93 in. x 8.2 in. x 6.5 in.)
Product Weight	0.3 kg (0.7 lbs)
Carton Dimensions (HxWxD)	89 mm x 279 mm x 229 mm (3.5 in x 11 in. x 9 in.)
Carton Weight	0.8 kg (1.8 lbs)
Packaging Dimensions (HxWxD) (6 units per carton)	254 mm x 559 mm x 305 mm (10 in. x 22 in. x 12 in.)
Packaging Weight (6 units per carton)	5.4 kg (11.9 lbs)
Environmental Specifications	
Storage Temperature	-20–+60°C (-4–+140°F)

Figure 4. Remote Control



T12721

Ordering Information

Table 4. Ordering Information

Cisco Set-Top	Part Number
Cisco Z70DVB with A/V Cable	4018280
Remote Control, Cisco Z-1	4015892
User's Guide, Cisco Z60DVB/Z70DVB	4015101
Power Supply, 90–270 VAC, Cisco Z Series	4015909
RCA Video/Audio Cable, 1.5M	4018205



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