

## Cisco Z260DVB and Z270DVB Digital Broadcast Set-Tops

Offering an affordable solution for broadcast digital audio and video services, the Cisco® Z260DVB and Z270DVB Digital Broadcast Set-Tops (set-tops) enable network operators to expand their channel lineup, recapture valuable spectrum, and offer Electronic Program Guide (EPG) and reservation pay-per-view (PPV) services without requiring an upgrade to their existing cable plant.

While both the Z260DVB and Z270DVB set-tops are optimized for cost and include a full-featured front panel, the Z270DVB model provides a connection to an external modem (cable or DSL) to allow interactive services such as Video-On-Demand (VOD) and expanded memory.

Both set-top models are DVB-C and MPEG-2 compliant, support PAL video formats, and include an optional SIM card reader that is capable of supporting renewable security.

**Figure 1.** Cisco Z260DVB and Cisco Z270DVB Digital Broadcast Set-Top (Cisco Z270DVB model shown) (image may vary from actual product and specification)



### Features

#### Navigator, EPG, and Setup Menus

- Enable display of program information in a 2-hour by 5-channel grid format
- Provide channel navigation and information about the current program and the upcoming program
- Include parental control and favorite channels selection
- Support Reservation PPV using mobile short message service (SMS) or telephone identification authorization
- Include installation and user setting menus
- Support English language

#### Infrared Remote Control

**Figure 2.** Cisco Z260DVB and Cisco Z270DVB Digital Broadcast Set-Top (Cisco Z270DVB model shown)  
(image may vary from actual product and specification)



**Table 1.** Front Panel Features

Feature	Description
Controls	7 buttons: GUIDE, OK, ◀VOL-, VOL+▶, CH-▼, CH+▲, POWER
Indicators	<p>POWER LED</p> <ul style="list-style-type: none"><li>• Illuminates green when the set-top is powered on and operating</li><li>• Illuminates red when the set-top is in standby mode</li><li>• Flashes green to indicate IR activity</li></ul> <p>LINK LED illuminates green when there is a linked connection to an external modem for two-way communication between the set-top and the service provider (available on Z270 models)</p>

**Figure 3.** Cisco Z260DVB Back Panel (image may vary from actual product and specification)



**Figure 4.** Cisco Z270DVB Back Panel (image may vary from actual product and specification)



**Table 2.** Back Panel Features

Feature	Description
Connections In	Cable In, SIM card reader
Connections Out	TV Out, Audio Out L/R, Video Out, 10/100 Ethernet port (available on Z270DVB models)

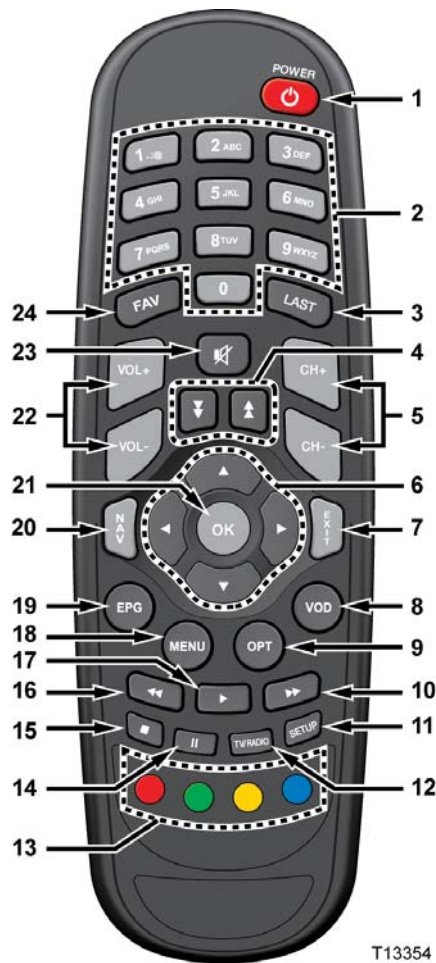
## Product Specifications

**Table 3.** Product Specifications

Specification	Value
<b>Audio/Video Outputs</b>	
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> </ul>
<b>Tuning and Decoding</b>	
Digital Service Tuners	<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)</li> <li>• Supports 16-bit graphics to display up to 65,000 colors simultaneously</li> <li>• Supports the following formats: RGB565, ARGB1555, and ARG4444</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>
<b>Memory/Storage</b>	
Configurable Memory Sizes	<p>Z260DVB base model contains:</p> <ul style="list-style-type: none"> <li>• 2 MB flash memory</li> <li>• 16 MB DRAM</li> <li>• 4 KB EEPROM</li> </ul> <p>Z270DVB base model contains:</p> <ul style="list-style-type: none"> <li>• 4 MB flash memory</li> <li>• 32 MB DRAM</li> <li>• 4 KB EEPROM</li> </ul>
<b>Processors</b>	
Powerful 32-bit RISC Processor	Fast CPU delivers quick tuning changes and on-screen response times
<b>Security</b>	
Internal Secure 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
<b>Data Transmission and Tuner</b>	
QAM 64 and 256 ITU J.83 Annex A Support	DVB-C (EN 300 429) compliant for QAM delivery and demodulation
RF Output with RF Loop-Through (Modulated Output Option)	<ul style="list-style-type: none"> <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> <li>• With the modulated output option, selectable channel output (21 – 69) occurs via the RF output. When the set-top is in operating mode, analog channels are combined with digital output. When the unit is in standby mode, the RF loop-through function allows the analog channels to bypass directly to the TV</li> </ul>

Conditional Access/Operation System	
PowerKEY Conditional Access System	<ul style="list-style-type: none"> <li>• Secures digital services using an RSA encryption algorithm that mathematically matches pairs of keys</li> <li>• Compliant with DVB (ETR 289) Common Scrambling Algorithm</li> </ul>
Power Supply	
Power Supply	<ul style="list-style-type: none"> <li>• Internal 90 – 270 VAC 50/60 Hz power supply with attached plug</li> <li>• 6 kV surge protection</li> </ul>
Accessories	
Accessory Cables (Optional)	Baseband audio/video cable
Dimensions	
Product (HxWxD)	200 mm x 145 mm x 47 mm (7.87 in. x 5.63 in. x 1.85 in.)
Product Weight	0.54 kg (1.2 lbs)
Carton – Single Product (HxWxD)	230 mm x 190 mm x 90 mm (9.05 in. x 7.48 in. x 3.54 in.)
Total Weight – Single Product Carton	0.86 kg (1.9 lbs)
Carton – 12 Products (HxWxD)	250 mm x 382 mm x 560 mm (9.84 in. x 15.04 in. x 22.05 in.)
Total Weight – 12-Product Carton	11.43 kg (25.2 lbs)
Environment Specifications	
Operating Temperature	0 to 50°C (32 to 122°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)

**Figure 5.** Remote Control



1. Power On and Off
2. Access specific channels
3. Access last channel viewed
4. Scroll through menu pages
5. Scroll through channels
6. Scroll through menu items
7. Exit menus
8. Access video-on-demand (VOD) window\*
9. Access audio/video options
10. Fast-forward VOD program\*
11. Access Setup Wizard
12. Toggle between TV and Radio modes
13. Access color-coded screen options
14. Pause VOD program\*
15. Stop VOD program\*
16. Rewind VOD program\*
17. Play VOD program\*
18. Access menus
19. Access Electronic Program Guide (EPG)
20. Access Navigator Bar
21. Select menu item
22. Adjust volume
23. Mute volume
24. Access Favorites List

\* If VOD services are authorized by service provider

## Ordering Information

**Table 4.** Ordering Information

Cisco Set-Top and Remote	Part Number
Cisco Z260DVB Set-Top (non-modulated output)	4022479
Cisco Z270DVB Set-Top (non-modulated output)	4023803
Cisco Z260DVB Set-Top (modulated output)	4022478
Cisco Z270DVB Set-Top (modulated output)	4022480
Remote Control, Cisco Z-21	4023051
RCA Video/Audio Cable, 1.5 m	4018205
Cisco Z260DVB and Z270DVB User's Guide	4023811



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Scientific Atlanta, A Cisco Company  
1-800-722-2009 or 770-236-6900  
[www.scientificatlanta.com](http://www.scientificatlanta.com)

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