

## Cisco Explorer 1540 Digital-Only Interactive Set-Top

Power, flexibility, and advanced security features highlight the Cisco® Explorer® 1540 Digital-Only Interactive Set Top (set-top).

The Cisco 1540 set-top supports the CableLabs® tru2way™ (formerly OCAP™) platform. Additionally, the set-top offers MPEG-4 (H.264) standard definition (SD) and high definition (HD) decoding with SD outputs and DOCSIS® 2.0 data capability.

**Figure 1.** Explorer 1540 Front Panel (Image may vary from actual product and specification.)



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### Features

#### Network Utilization Enhancements

- *1 GHz Tuning* enables cable operators to expand network bandwidth to provide additional services such as VOD, tru2way, DOCSIS 2.0, and high speed data
- *MPEG-4 (H.264) Decoding* supports compression technology that provides better video quality at approximately half the data rate of MPEG-2
- *DOCSIS 2.0* provides greatly increased upstream throughput for future advanced services and provides a path for future IP video services (optional software)

#### OpenCable and Conventional Network Support

- *Axiom™ Middleware* supports tru2way applications such as Service Navigators, Games, and future applications (optional software)
- *DSG (DOCSIS Set-top Gateway)* provides a powerful standard transport mechanism for command and control signaling between the set-top and service provider network (optional software)
- *DAVIC Receiver/Transmitter* allows IP-based, real-time, two-way communication between the set-top and the service provider network for services such as on-demand service (optional software)

**Home Networking Features**

- *USB 2.0 Connection* enables a host connection to peripheral devices such as navigation controllers, network adapters, and memory media readers
- *Ethernet Connection* enables a connection to the home IP LAN for advanced services such as content sharing to the set-top from retail-purchased electronic devices

**Figure 2.** Explorer 1540 Front Panel (Image may vary from actual product and specification.)



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**Table 1.** Front Panel Features

Feature	Description
Connections	USB 2.0 Host, software controlled
Controls	IR Receiver, Power
Indicators	Power
Color	Black, white text
Branding	Cisco, model number, provision for service provider branding

**Figure 3.** Explorer 1540 Back Panel (Image may vary from actual product and specification.)



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**Table 2.** Back Panel Connectors

Feature	Description
Connections In	Cable In
Connections Out	Cable Out, L/R Audio, Baseband Video, IR, Optical Audio Out, and S-Video
Output Resolutions	720 x 480i 60 Hz, software controlled
Connections-Interactive	Cable In
Power Input	External DC Power
Labels	Serial Number, RF MAC Address, eCM MAC Address

## Specifications

**Table 3.** Product Specifications

Specification	Value
<b>Tuning and Decoding</b>	
Tuning	QAM 64 or 256, In-Band 54 MHz–1 GHz, QPSK out-of-band (OOB) 70–130 MHz, DOCSIS 91–867 MHz, A/V in display
Video Decoders	MPEG-2 MP@ML, MP@HL (SD, 720 x 480i), MPEG-4 (HP@L3, HP@L4), VC1, Video Scaling
Audio Decoders	Dolby™ Digital to 5.1, MPEG-1 and MPEG-2, Dolby Digital+, AAC, AAC+, AC3, MP3
Conditional Access	Embedded PowerKEY®
Graphics Engine	65,000 colors, 720 x 480 resolution, simultaneous scale MPEG-2 video
DAVIC	FDC (Forward Data Channel) 1.54 Mbps QPSK, RDC (Reverse Data Channel) 1.54 Mbps QPSK, FAT QAM Channel Downstream, software controlled
DOCSIS	OOB and interaction via DOCSIS 2.0, DOCSIS Set-top Gateway, Baseline Privacy Interface, software controlled
<b>Memory/Storage</b>	
DDR 2	≤ 256 MB
Serial Boot Flash	2 MB
NAND Flash	≤ 256 MB
EEPROM Memory NVM	16 KB
<b>Processors</b>	
Application/CPU	700 MHz (approximately 1000 dMIPs)
DOCSIS	200 MHz CPU
<b>Dimensions</b>	
Product (HxWxD)	1.76 in. x 11.8 in. x 7.38 in. (4.5 cm x 30 cm x 18.7 cm)
Product Weight	2.0 lbs (0.9 kg)
Carton (HxWxD)	12.625 in. x 10.625 in. x 13.25 in. (32.1 cm x 27.0 cm x 33.7 cm)
Total Weight	19.4 lbs (8.8 kg)
<b>Environment Specifications</b>	
Placement	Locate with at least 2 inches of open space above and on each side
Room Temperature	32 to 105°F (0 to 40°C) during operation
Storage Temperature	14 to 158°F (-10 to 70°C)

**Table 4.** Accessories

Specification	Value	
<b>In Carton</b>		
	Power Cord, Quick Reference Guide	
<b>Sold Separately</b>		
	Axiom tru2way Middleware License	<b>Part Number</b> 4014594
	SARA Software License	4020466
	AT8560 AllTouch® Universal Remote Control	4016237
	RGB Adapter and Cables	749790
	IR Extender—12 ft	1001807
	IR Extender—25 ft	4006725

## Ordering Information

**Table 5.** Ordering Information

Model	Description	Part Number Set-Top
Explorer 1540	Explorer 1540 Digital-Only Interactive Set-Top with 32 MB of Flash and 128 MB Application Memory	4023145

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