Cisco iDTA153 Digital Terminal Adapter

The Cisco® International Digital Terminal Adapter 153 (iDTA153) enables a service provider's transition to an "all digital" network by converting video from digital to analog format and supporting PowerKEY® Conditional Access. The Cisco iDTA153 supports standard TVs with radio frequency (RF) input on channel 3 or 4 and composite video with stereo audio outputs. The iDTA153 is MPEG-2 DVB-C compliant, supports NTSC M or PAL BG/DK video output, and PowerKEY conditional access to securely protect broadcast video services.

Figure 1.   Cisco iDTA153 Digital Terminal Adapter and remote control (images may vary from actual product and specification)

Features:

- Supports Standard Definition (MPEG-2 decoding)
- Supports IR Extender to enable flexible placement of DTA
- Provides a simple user interface for selecting output formats and multiple sub-titles (SCTE27)
- Works with an easy-to-use remote control
- Uses PowerKEY conditional access to enable digital security in new or existing PowerKEY networks
- Allows service providers to authorize and de-authorize subscription services remotely
- Supports the same channel packages as other set-tops within the network

Figure 2.   Cisco iDTA153 Digital Terminal Adapter (image may vary from actual product and specification)

Table 1.   Front Panel Features

Feature	Description
Controls	IR receiver (38 kHz NEC)
Indicators	Red/Green LED indicates standby/power on
Color	Black Finish, Black Lens, White Text

Figure 3.   Cisco iDTA153 Digital Terminal Adapter - Back and Side Panels (image may vary from actual product and specification)

Back

Side

Table 2.   Back and Side Panel Features

Feature	Description
Connections In	F-Connector "Cable In" (side panel)
Connections Out	Video, L-R Audio, F-Connector (back panel) "To TV" (side panel)
Output Resolutions	720 x 480i 60 Hz (NTSC), 720 x 576 50 Hz (PAL BG/DK), Audio L-R, BTSC Stereo
Output Control	Output Ch 3 or 4, NTSC M or PAL BG or PAL DK, UI Channel Selection, UI Format Selection, Stereo/Mono Selection, Second Audio Selection
Connections-Interactive	IR port 38 kHz
Power Input	5 V DC, 2.0 A
Power Supply	External, 90-270 VAC, 50-60 Hz, Wall Mount, US-type detachable plug, Country specific attachable plug sold separate (optional)
Labels-Bottom	Cisco Brand, Model and Part Number, Number with Bar Code, MAC Address with Bar Code, Regulatory and Safety Markings, Patent Information

Product Specifications

Table 3.   Product Specifications

Specification	Value
Tuning and Decoding	
Tuning	QAM 64 or QAM 256, In-Band 54 MHz to 870 MHz, SCTE-65 with ITU-T J.83 Annex B tuning or DVB-C with ITU-T J.83 Annex A tuning (software option), 6 MHz channel spacing or 8 MHz channel spacing (option)
Video Decoders	MPEG-2 (ISO/IEC 13818-2), MPEG-1 (ISO/IEC 11172-2), up to 720 x 480i 60 Hz, up to 720 x 576i 50 Hz
Audio Decoders	Dolby™ Digital to 5.1 (AC3), MPEG-1, MPEG-2, Second Audio
Memory/Storage	
RAM	16 MB, 32 MB (option)
Flash	2 MB, 4 MB (option), 16 MB (option)
Processors	
Application/CPU	250 MHz 32-bit main system CPU
Video Graphics	On-screen display graphics plane, advanced 2D graphics accelerator, SCTE-27 Subtitles, English UI, Spanish UI, Portuguese UI
Conditional Access	
Internal Secure Microprocessor	Provides hardware-assisted conditional access functions within a tamper-resistant package
PowerKEY Conditional Access System	Secures digital services using an RSA encryption algorithm that mathematically matches pairs of keys
Packaging	
Package	Craft Carton, Molded Pulp Cushioning, 20 units per multi-pack, Recyclable
Package Label	Cisco Brand, STB Model, STB Part Number, STB Serial Number, STB MAC Address, Build Date, HW Version
Dimensions	
Product (HxWxD)	2.4 cm x 9.9 cm x 6.7 cm (0.95 in. x 3.9 in. x 2.7 in.)
Product Weight	0.25 kg (0.5 lb)
Unit Carton (HxWxD)	5.6 cm x 21.0 cm x 12.4 cm (2.21 in. x 8.27 in. x 4.89 in.)
Unit Gross Weight	0.5 kg (1.1 lb)
Multi-Unit Carton (HxWxD)	43.9 cm x 60.5 cm x 15.9 cm (17.28 in. x 23.81 in. x 6.26 in.)
Multi-Unit Gross Weight	10.8 kg (23.8 lb)
Operating Conditions	
Placement	Place the iDTA153 in a location with at least 5.08 cm (2 in.) of open space above, and on each side of, the adapter.
Room Temperature	0° to 40°C (32° to 104°F) during operation
Power Dissipation	5 W maximum

Table 4.   Accessories

Item		Part Number
Included in Carton		
	Power Supply with detachable US-type plug, Installation Manual, Velcro Attach Kit	
	Remote Control 38 kHz IR, NEC protocol, single function, includes batteries, 21-keys: Power, 0-9 Digits, Mute, Back, OK, Volume +/-, Channel +/-, Menu, Info, Options	
Optional		**Part Number**
	IR Extender 38 kHz (3.5 mm) 1 M	4029013

Ordering Information

Table 5.   Ordering Information

Model	Description	Part Number
iDTA153	iDTA153, 8 MHz Tuning, 16 MB/2 MB, AV out, PK (Mult=20)	4036810
iDTA153	iDTA153, 6 MHz Tuning, 16 MB/2 MB, AV out, PK, AV cbl (Mult=20)	4037598
iDTA153	iDTA153, 6 MHz Tuning, 16 MB/2 MB, AV out, PK (Mult=20)	4037506

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