Cisco 8380DVB MPEG-4 HD Digital Video Recorder

The Cisco[®] 8380DVB MPEG-4 High-Definition (HD) Digital Video Recorder (DVR) offers subscribers some of the latest enhancements in cable television viewing. It combines multiple, compelling video services into one integrated unit. This multi-tuner DVR features MPEG-4 Part 10/H.264 SD/HD capability and features robust interactive capability (requires additional software) using the DOCSIS[®] 2.0-compliant cable modem. The 8380DVB provides consumers a rich home entertainment experience with HD picture clarity, the movie theatre experience of surround sound, personalized recording with Personal Video Recording (PVR) control, and the convenience of on-demand services, such as video-on-demand.

The 8380DVB is compliant with DVB-C standards, MPEG-2 and MPEG-4 standards, supports PAL video formats, and is designed in compliance with the required safety, emissions, and immunity specifications (as per the mandatory laws that may be applicable to Cisco). With its smart card reader, the 8380DVB is built to support renewable security.

Figure 1.   Cisco 8380DVB MPEG-4 HD DVR (image may vary from actual product and specification)

Features

- Multi-format video decoder capable of high definition MPEG-2, MPEG-AVC/ H.264/Decoding
- Support for multiple picture formats (576i, 576p, 720p, and 1080i) to allow optimum picture performance with both standard TVs and HDTVs
- Internal 320 GB hard disk drive (optional 160 GB or 500 GB)
- DOCSIS 2.0-compliant cable modem
- HDMI™ connector to connect the set-top to an HDTV
- Digital audio output to connect easily to high-end audio equipment
- RCA outputs to connect to standard definition TVs or VCRs
- USB 2.0 port for connectivity to USB 2.0-compliant devices

Figure 2. Cisco 8380DVB MPEG-4 HD DVR Front Panel (image may vary from actual product and specification)

Table 1. Front Panel Features

Feature	Description
Controls	6 buttons: ON/STANDBY, CH-, CH+, VOL-, VOL+, RECORD
Clock Display	6-digit, 7-segment green display
Indicators	4 LED indicators for power on/standby, cable modem connection, message and recording
Other	ISO7816 Smart Card Reader IR Receiver USB 2.0 Host Port

Figure 3. Cisco 8380DVB MPEG-4 HD DVR Back Panel (image may vary from actual product and specification)

Table 2. Back Panel Features

Feature	Description
Connections In	Cable In (75 ohm female F-type connector)
Connections Out	HDMI, Analog Component (YPbPr), S-Video, Composite Video, Dual Audio L/R, SPDIF Digital Audio, Dual 10/100 Ethernet Output, Test Port
Power Cord	Removable 1.5m power cord
Power Switch	Rocker Type

Product Specifications

Table 3. Product Specifications

Specification	Value
Audio/Video Outputs	
Inputs and Outputs	• 75 Ohm female, F-type connector, RF input • HDMI 1.2 output • Analog component (YPbPr) • S-Video • Dual audio L/R outputs • Digital audio output - optical type • Dual 10/100BASE-T Ethernet port • USB 2.0 front panel
HDMI 1.2 Output with HDCP Copy Protection	• HDMI provides uncompressed digital video and audio in a simple, user-friendly connector • HDMI combined with HDCP (High Bandwidth Digital Content Protection) is designed to provide the optimal, secure connection to an HDTV set that supports the HDMI with HDCP interface
USB 2.0 High-Speed Data Output Front Panel	Provides a 480 Mbps output for connection to devices such as external hard drives* *USB support requires middleware and application support for functionality*
Tuning and Decoding	
Multi-Format Video Decoder	• Allows decoding and presentation of audio and video in both MPEG-2 and MPEG-4 Part 10 formats • SD Model Formats: MPEG-2 MP@ML; MPEG-4 Part 10 MP@ Level 3.0 and HP@ Level 3.0 • HD Model Formats: MPEG-2 MP@ML and MP@HL; MPEG-4 Part 10 MP@ Level 3.0/4.0 and HP@Level 3.0/4.0 • Supports multiple picture formats (576i, 576p, 720p, or 1080i) to allow optimum picture performance with both standard TVs and HDTVs
Multi-Format Audio Decoder	Enables tuning of digital audio MPEG-1 layer I/II, MP3, MPEG-2 layer II, AC3 Dolby™ Digital; MPEG-4 AAC audio formats
Independent DOCSIS 2.0 Cable Modem with 200 MHz Processor	• Allows IP-based, real-time, two-way communications between the set-top and the headend • The cable modem has a separate processor and dedicated memory from the set-top processor and memory to achieve optimum performance without impacting set-top functions
10/100 Ethernet Output	Allows home networking and multi-room services. Support requires middleware and application support for functionality. Alternatively the Ethernet port can provide high-speed cable modem data service when connected to a PC.
Powerful Graphics Engine	Enables high-resolution graphics up to 720 x 576
Memory/Storage	
DVR with 320 GB Hard Drive	The 320 GB hard drive is designed to allow up to 160 hours* of SD programs to be recorded and stored using DVR functions Gives subscribers complete control over watching, pausing, rewinding, replaying, and fast forwarding live programs using the remote control *The total program hours that can be stored depends upon the format and data rate of the programming source.*
Memory Configuration	Base model contains: • 32 MB FLASH • 64 MB DDR RAM for video decoding • 128 MB DDR RAM for system and applications • 32 KB EEPROM

Processor	
Powerful 32-bit RISC Processor	Fast CPU (300 MHz) delivers quick tuning changes and onscreen response times
Data Transmission and Tuner	
QAM 64 and 256 ITU J.83 Annex A Support	DVB-C (EN 300 429) compliant for QAM delivery and demodulation
Conditional Access and Security/Operation System/Application	
Smart Card	ISO7816 smart card reader for renewable security
PowerKEY Conditional Access System	• Secures digital services using an RSA encryption algorithm that mathematically matches pairs of keys • Compliant with DVB (ETR 289) Common Scrambling Algorithm
Power Supply	
Power Supply	Internal 100 – 240 VAC 50/60 Hz power supply with detachable plug
Dimensions	
Product (WxDxH)	Approximately 415 mm x 245 mm x 45 mm (16.3 in. x 9.6 in. x 1.8 in.)

Table 4.   Ordering Information

Cisco Set-Top	Part Number
Cisco 8380DVB Set-Top	4038813
Remote Control, Z-8	4033688
RCA Video/Audio Cable, 1.5 m	4018205
User Guide	4021197

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