Cisco 8485DVB MPEG-4 HD Digital Video Recorder with LED Display

The Cisco® 8485DVB MPEG-4 High-Definition (HD) Digital Video Recorder (DVR) with LED Display 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 robust interactive capability using the DOCSIS® 2.0-compliant cable modem. This combination allows you to help grow your subscriber base, help increase customer satisfaction, and as such can boost existing revenue streams. The Cisco 8485DVB is designed to provide 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 (VOD).

The 8485DVB is compliant with DVB-C standards, MPEG-2 and MPEG-4 standards, supports PAL video formats, and is designed to be compliant with the required safety, emissions, and immunity specifications (as per the mandatory laws that may be applicable to Cisco). With its SmartCARD reader, it is built to support renewable security.

Figure 1. Cisco 8485DVB 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 /VC-1 decoding
- Supports multiple picture formats (576i, 576p, 720p and 1080i) to allow optimum picture performance with both standard TVs and HDTVs
- Internal 160 GB hard disk drive
- Embedded DOCSIS 2.0-compliant cable modem
- Connect an HDTV to the set-top through the HDMI™ connector
- Digital audio output to connect easily to high-end audio equipment
- SCART outputs to connect to standard definition TVs or VCRs
- Ethernet port for connection to video source or connected home residential gateway
- USB 2.0 port for connectivity

Figure 2. Cisco 8485DVB 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	4-digit, 7-segment green LED display
Indicators	4 LED indicators for Power on/standby, cable modem connection, message and recording
Other	ISO7816 SmartCARD IR Receiver USB 2.0 Host Port

Figure 3. Cisco 8485DVB 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 IEC connector)
Connections Out	RF Bypass (75 ohm male IEC connector) HDMI Dual SCART Audio L/R Out SPDIF Digital Audio Output 10/100 Ethernet Output
Connections Out (Optional)	USB 2.0 Port (Optional) 2nd 10/100 Ethernet Output for In-Home Video Distribution (Optional) Analog Component (YPbPr) Out (Optional)
Power Cord	Attached 1.5 m power cord

Product Specifications

Table 3. Product Specifications

Specification	Value
Audio/Video Outputs	
Inputs and Outputs	• 75 ohm female IEC connector RF input • 75 ohm male IEC connector RF bypass output • HDMI 1.2 output • Analog component (YPbPr) outputs (Optional) • TV SCART output • VCR SCART output • Audio L/R outputs • Digital audio output - Optical type • 10/100BASE-T Ethernet port (2nd 10/100BASE-T Ethernet port [Optional]) • USB 2.0 Front Panel; (USB 2.0 Back Panel [Optional])
HDMI 1.2 Output with HDCP Copy Protection	• High-Definition Multimedia Interface (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 that supports the HDMI with HDCP interface
USB 2.0 High-Speed Data Output Front Panel – Standard Rear Panel – Additional Option	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 (2nd Output Optional)	• Allows connection to an external cable modem to allow interactive services such as VOD • 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 160 GB Hard Drive (320 GB optional)	• The 160 GB hard drive is designed to allow up to 80 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: • 16 MB Flash memory • 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 on-screen response times

Specification	Value
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
RF Output with RF Loop-Through	The RF loop-through function allows the analog channels to bypass directly to the TV
Conditional Access and Security/Operation System/Application	
SmartCARD	ISO7816 SmartCARD reader for renewable security
Conditional Access System	• Compliant with DVB (ETR 289) Common Scrambling Algorithm • Supports 3rd-party conditional access systems including Irdeto, MediaGuard and NAGRA
Macrovision® Copy Protection (Optional; requires a separate agreement between the cable operator and Macrovision Corp.)	Allows cable service providers to add another layer of copy protection software, called Macrovision, designed to restrict unauthorized subscribers from making analog copies of digital transmissions
Power Supply	
Power Supply	Internal 90 – 270 VAC 50/60 Hz power supply with attached plug
Dimensions	
Product (WxDxH)	Approximately 415 mm x 245 mm x 45 mm (16.3 in. x 9.6 in. x 1.8 in.)

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