

Cisco 8488DVB-CN MPEG-4 HD Digital Video Recorder

The Cisco® 8488DVB-CN MPEG-4 High-Definition (HD) Digital Video Recorder (DVR) offers subscribers some of the latest enhancements in cable television viewing. The 8488 DVB-CN DVR 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 using the DOCSIS® 2.0-compliant cable modem. The 8488DVB-CN provides consumers a rich home entertainment experience with HD picture clarity, the movie theater 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 8488DVB-CN is equipped with middleware and an application customized for the Chinese market. In addition, the set-top can be configured with Ethernet to allow for multi-room home networking capabilities. The set-top is compliant with DVB-C, MPEG-2, and MPEG-4 Part 10 standards and supports PAL video formats.

Figure 1. Cisco 8488DVB-CN 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
- Record two programs simultaneously while watching one of the programs in progress or while watching a previously recorded program from the hard drive (middleware dependent)
- Pause Live television in SD and HD, MPEG-2 and MPEG-4 Part 10 (H.264)
- Supports 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
- 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
- Dual Ethernet ports for connection to video source or connected home residential gateway
- USB 2.0 port for connectivity

Figure 2. Cisco 8488DVB-CN MPEG-4 HD DVR Front Panel (image may vary from actual product and specification)



Table 1. Front Panel Features

Feature	Description
Controls	6 buttons: Left, Right, Up, Down, Instant Record, On/Standby
Clock Display	6-digit, 7-segment green LED display
Indicators	4 LED indicators for Power On/Standby, cable modem connection, message, and recording
Other	• ISO 7816 compliant Smart Card • IR Receiver • USB 2.0 Host Port

Figure 3. Cisco 8488DVB-CN 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	• HDMI Out • Dual L/R Audio Out • Component Video (YPbPr) • S-Video • Composite Video • Digital Audio Output (Optical) • Dual 10/100 Ethernet Output
Power	Power Connector with separate power cord
Power Switch	Dedicated On/Off Power Switch

Product Specifications

Table 3. Product Specifications

Specification	Value
Audio/Video Outputs	
Inputs and Outputs	• 75 Ohm female IEC connector RF input • HDMI 1.2 output • Component Video (YPbPr) • S-Video • Composite Video • Digital audio output (optical) • Dual Audio L/R outputs
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) provides the optimal, secure connection to an HDTV that supports the HDMI with HDCP interface
USB 2.0 High-Speed Data Output	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 • Supports SD Model Formats: MPEG-2 MP@ML; MPEG-4 Part 10 MP@ Level 3.0 and HP@ Level 3.0 • Supports 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 • Contains a separate processor and dedicated memory from the set-top processor and memory to achieve optimum performance without affecting set-top functions
Dual 10/100 Ethernet Outputs	The dual Ethernet ports provide high-speed cable modem data that can be connected to a PC or other IP devices in the home.
Powerful Graphics Engine	Enables high-resolution graphics up to 1920 x 1080
Memory/Storage	
DVR with 320 GB Hard Drive (Optional 160 GB available)	• Allows up to 160 hours* of MPEG-2 SD programs or up to 90 hours of MPEG-4 Part 10 HD 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 <i>*The total program hours that can be stored depends upon the format and data rate of the programming source</i>
Memory Configuration	Contains: • 32 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 (ST710x)	Fast CPU (300 MHz) delivers quick tuning changes and on-screen 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	
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
Hard Disk Drive Security	Secure content on the hard disk drive uniquely per set-top with a PowerKEY encryption algorithm
Power Supply	
Power Supply	Internal 150 – 240 VAC 50 Hz power supply
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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