

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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • 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 <p><i>*The total program hours that can be stored depends upon the format and data rate of the programming source</i></p>
Memory Configuration	Contains: <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> 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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