



ALL-DIGITAL • HD MPEG-4 • MR-DVR • 1080P60 OUTPUT

Motorola continues to expand its industry-leading set-top portfolio with the DCX3501-M — an all-digital HD Digital Video Recorder with dual 1 GHz video tuners and support for both MPEG-2 and MPEG-4 HD decode.

Product Overview

The DCX3501-M includes the latest audio and video output, with support for full 1080p60 high-definition output, HDMI™, award-winning Dolby® Digital Plus, and Dolby Volume intelligent multi-channel audio leveling. In addition to a full-featured front-panel display and touch-sensitive buttons, the DCX3501-M features an internal 500 GB hard drive in a new design that allows easy upgrade and replacement by the cable operator. DVR capacity can be expanded to 1 TB or more using an external disk drive connected to the set-top's eSATA interface. The DCX3501-M is OpenCable Application Platform (OCAP™)-capable, and compatible with Motorola's DCT legacy software API set. The DCX3501-M also supports Motorola's new software enhancements for processing 3D video and graphics in the set-top prior to being delivered to a 3D-compatible television for an exceptional high-quality 3D TV viewing experience.

Multi-Room DVR

The DCX3501-M set-top offers an integrated MoCA® home networking interface, which allows it to serve as a multimedia hub for sharing content with other compatible devices in the home, creating an IP home network. This feature provides consumers ultimate control and flexibility over their media choices, viewing interest, and entertainment lifestyles while providing access to their digital content in any room of their home, any time they want it.

Bandwidth Efficiency Solutions

With support for MPEG-4 video, the DCX3501-M allows operators to use limited bandwidth to provide high-definition programming and high-bandwidth advanced applications.



Dual 1 GHz digital video tuners support future plant expansion, enabling operators to increase the number of available channels. The DCX3501-M supports Switched Digital Video (SDV) solutions, which maximize bandwidth by delivering programming only where and when subscribers request it.

Environmentally Conscious

In addition to providing industry-leading features and performance, the Motorola DCX3501-M was designed with the environment in mind. The DCX3501-M is 33 percent lighter than previous models, requiring less material in development, and the product bezel is built with 20 percent post-consumer recycled plastic, a significant environmental innovation. The packaging uses 75 percent recycled content cardboard and is 100 percent recyclable, and is marked with standard recycling codes to help customers identify recycling opportunities.

Remote Diagnostic Capabilities

The DCX3501-M works with Motorola's SmartStream Terminal Data Collector (STDC) to report set-top status for evaluation and corrective action, enabling operators to isolate and troubleshoot plant issues, improve service quality, and reduce operational costs.

Features

- M-Card™ (Multi-stream CableCARD™) support for Conditional Access
- OpenCable Application Platform (OCAP™)-capable
- Compatible with Motorola DCT/DCH legacy software API set
- Digital Video Recorder (DVR) with dual 1 GHz digital video tuners
- Additional 1 GHz DOCSIS® tuner
- Standard 500 GB replaceable hard drive
- Standard MoCA integrated home networking interface
- Dual high-definition (HDTV) decode of MPEG-2 and MPEG-4 AVC (H.264) with 1080p60 HDMI output
- Dolby® Digital and Dolby Digital Plus audio decode
- Dolby Volume intelligent multi-channel audio leveling

General Specifications

STANDARD INTERFACES

Front Panel

- Power, Message, Data, and Home LAN indicators
- Output video format indicator
- Four-character seven-segment display
- Two recording indicators
- IR receiver (with Motorola and XMP-1 protocol auto-detection)
- USB 2.0 Host Type A port
- Four-way navigation, Select, Power, Menu, Guide, Info, Channel Up/Down, and Format touch-sensitive buttons

Rear Panel

- F-connector for cable input
- Integrated MoCA 1.1 Home Networking interface
- Pre-installed M-Card
- HDMI output (up to 1080p60) with auto-lip sync correction
- YPbPr component output
- Baseband composite video output
- RF remod output (Channel 3/4)
- S-Video output
- L/R audio output with volume control
- Coaxial and Optical S/PDIF digital audio outputs
- IEEE-1394a interface (M-Card/U.S. model only)
- 10/100 Ethernet interface
- eSATA interface
- Mini-phone 3.5 mm serial port/External IR input (IR extender cable sold separately)

SPECIFICATIONS

RF Input Frequency	Dual 54 MHz to 1002 MHz (audio/video)
Memory	64 MB Flash, 512 MB DRAM
Video	Dual HDTV decode of MPEG-2, MPEG-4 AVC
Video Format	NTSC, PAL-M, PAL-Nc
Video Resolution	480i/p, 576i/p, 720p, 1080i, and 1080p60 (HDMI only)
Audio	Dolby Digital, Dolby Digital Plus, Dolby Volume
Graphics	Up to 32-bit color, accelerated 2D and 3D and scalable video-in-graphics
1 GHz DOCSIS Tuner	DSG and 2.0+ channel bonding (3 down, 1 up)
Hard Disk Drive	500 GB internal (replaceable/ upgradable)
Out-of-Band Modulation	Frequency agile receiver 70 MHz to 130 MHz
Power Supply	105 VAC to 125 VAC, 60Hz input; 12 VDC output
Power Dissipation	28 W (depending on features)
Dimensions	12.6 in W x 8.75 in D x 2.56 in H
Weight	5.5 lb
Operating Temperature	15 °C to 42 °C (50 °F to 108 °F)
Operating Humidity	5% to 90% (non-condensing)

ACCESSORIES

500 GB hard drive replacement kit
 Visit motorola.com/settopaccessories for availability of additional drive sizes and information about other Motorola set-top accessories.



All features, functionality, and specifications are subject to change without notice or obligation.

More Features

DOCSIS 2.0+ embedded cable modem with support for DSG and downstream channel bonding (3 down, 1 up)

SCTE 55-1/SCTE 55-2 out-of-band

64 MB Flash, 512 MB DRAM

Full-featured front panel display and touch-sensitive controls

Remote and on-screen diagnostics

Switched Digital Video (SDV)-capable

Accelerated 2D and 3D graphics

Manufacturing Optional Features

Wide-range power supply/ regional AC cord



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