DCX3501-M HD Dual Tuner DVR Set-Top

All-Digital • HD MPEG-4 • MR-DVR • 1080p60 Output

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

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

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. The DCX3501-M includes the latest audio and video output, with support for full 1080p60 high-definition output, HDMI™, 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-capable 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% lighter than previous models, requiring less material in development, and the product bezel is built with 30% post-consumer recycled plastic, a significant environmental innovation. The packaging uses 75% recycled-content cardboard and is 100% recyclable, and is marked with standard recycling codes to help customers identify recycling opportunities. The DCX3501-M set-top is designed to meet the U.S. EPA's ENERGY STAR standard for 2011, with reduced power consumption and standby modes. It is also designed to comply with the European Restriction on Hazardous Substances (RoHS).

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.

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, 60 Hz 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 ºC to 42 ºC (50 ºF to 108 ºF)
Operating Humidity	5% to 90% (non-condensing)

MANUFACTURING OPTIONAL FEATURES

Wide-range power supply/regional AC cord

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.

MOTOROLA

Motorola, Inc., 101 Tournament Drive, Horsham, Pennsylvania 19044 U.S.A. www.motorola.com