



MODEL

DCX3520E-M

HD DUAL TUNER DVR SET-TOP



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

Motorola continues to expand its industry-leading set-top portfolio with the DCX3520e-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 DCX3520e-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, the DCX3520e-M features an internal 500 GB hard drive, which can be expanded to 1 TB or more using an external disk drive connected to the set-top's eSATA interface. The DCX3520e-M is compatible with Motorola's DCT legacy software API set. The DCX3520e-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 DCX3520e-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 DCX3520e-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 DCX3520e-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 DCX3520e-M was designed with the environment in mind. The DCX3520e-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 DCX3520e-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

- Embedded MediaCipher™ Conditional Access
- 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 hard drive
- Standard MoCA integrated home networking interface
- 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 receivers (Motorola)
Power button

Rear Panel

F-connector for cable input
Integrated MoCA 1.1 Home Networking interface
HDMI output (up to 1080p60) with auto-lip sync correction
YPbPr component output
Baseband composite video output
L/R audio output with volume control
Optical S/PDIF digital audio outputs
10/100 Ethernet interface
eSATA interface
Mini-phone 3.5 mm serial port/External IR input (IR extender cable sold separately)
USB 2.0 Host Type A port

SPECIFICATIONS

RF Input Frequency	Dual 54 MHz to 1002 MHz (audio/video)
Memory	64 or 128 MB Flash, 640 or 1024 MB DRAM
Video	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
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 °C to 42 °C (50 °F to 108 °F)
Operating Humidity	5% to 90% (non-condensing)



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 or 128MB Flash, 512 or 1024MB DRAM

Front panel display

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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