DCX3400

As competition in the video service industry continues to increase, cable operators require advanced technologies for delivering a superior digital viewing experience and exciting new applications. Motorola has developed a sophisticated all-digital solution with the DCX series, the next generation of Host set tops. The DCX set-tops are loaded with features for improving bandwidth efficiency, providing high-definition video with surround sound audio, and bringing on-demand and interactive services to a connected home environment.

The DCX3400 is a Digital Video Recorder (DVR) with dual 1GHz video tuners and support for both MPEG-2 and MPEG-4 high definition decode. The all-digital DCX3400 includes the latest audio and video output interfaces, including HDMI™ and Dolby® Digital Plus audio. The optional MoCA™ Home Networking component enables the DCX3400-M set top to serve as a media hub for in a connected home environment. An embedded DOCSIS 2.0+ cable modem provides support for DSG and downstream channel bonding.

Features

- M-Card™ (Multi-stream CableCARD) Host support for conditional access
- OpenCable Application Platform (OCAP™) capable
- Compatible with Motorola DCT/DCH legacy software API set
- Dual Tuner Digital Video Recorder (DVR)
- Standard 160GB Hard Drive (250GB option)
- Optional MoCA™ home-networking interface
- Dual High-definition (HDTV) decode of MPEG-2, MPEG-4 AVC (H.264), VC-1
- Dual Audio decode of Dolby® Digital, Dolby® Digital Plus, AAC-LC / HE-AAC, WMA9, MP3
- Dual 1 GHz digital video tuners
- 1GHz DOCSIS tuner
- Picture-in-Picture
- Accelerated 2-D and 3-D graphics
- DOCSIS 2.0+ embedded Cable Modem with support for DSG and down-stream channel bonding (3 down, 1 up)
- SCTE 55-1 / SCTE 55-2 Out-of-band (OOB) data transmitter/receiver
- 32 MB Flash (standard), 256MB DRAM total (standard)
- Full featured front panel display and controls
- Remote and on-screen diagnostics
- Switched Digital Video (SDV) Capable
- Macrovision®, HDCP, DTCP, and CGMS-A content protection schemes on the respective interfaces

Bandwidth Efficiency Solutions

The DCX3400 fully supports the growing consumer demand for high-definition programming and high bandwidth advanced applications. The DCX3400 provides new methods of efficiently utilizing limited bandwidth for delivering these services. For example, the DCX3400 is capable of decoding MPEG-4 video streams, requiring significantly less bandwidth than MPEG-2 to deliver comparable quality video services. The dual 1GHz digital video tuners in the DCX3400 support future plant expansion, enabling operators to increase the number of available channels. The DCX3400 also supports Switched Digital Video (SDV) solutions, allowing service providers to maximize the use of their available bandwidth by delivering programming only to nodes where and when subscribers actively request that programming.

Watch and Record Flexibility

Consumers value the watch-and-record flexibility that a dual tuner DVR set top provides. The DCX3400 further enhances this experience with a 250GB hard drive upgrade to provide ample capacity for recording an entire household's favorite shows. The optional integrated MoCA™ Home Networking component enables the DCX3400-M set top to act as a media hub for sharing content on its hard drive with other non-DVR set-tops in the home.

Remote Diagnostic Capabilities

The DCX3400 supports Motorola's SmartStream Terminal Data Collector (STDC) service for remotely gathering important set top status and health information in a centralized server for evaluation and corrective action. STDC provides operators with the ability to isolate and troubleshoot plant issues, improve service quality, and reduce operation costs.

SPECIFICATION SHEET

DCX3400

STANDARD INTERFACES

Front Panel
Power, Message, Data, and Home LAN indicators
Output video format indicator
4-character 7-segment display
2 Recording indicators
IR remote control sensor
USB 2.0 Host Type A port
4-way navigation, Select, Power, Menu, Guide, Info, Channel Up/Down and Format buttons
Rear Panel
F-connector for Cable input
Pre-installed M-Card™
HDMI™ output
YPbPr component output
Baseband composite video output
RF Remod output (Ch. 3/4)
S-video output
L/R audio output with volume control
L/R audio output – fixed line level
Coaxial and Optical S/PDIF digital audio outputs
USB 2.0 Host Type A port
1394a interface
10/100 Ethernet interface
eSATA interface
Mini-phone 3.5mm serial port / External IR input
Accessory Outlet Unswitched 4 A/500 W maximum

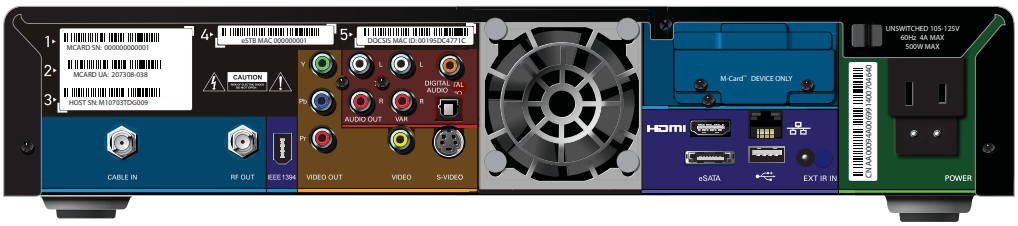
SPECIFICATIONS

RF Input Frequency: (video and audio)	54 to 1002 MHz
Memory:	32MB Flash; 256 MB DRAM
Video:	Up to 32-bit color, accelerated 2-D and 3-D support, and scalable video-in-graphics
Processor:	MIPS, RISC-based
Hard Disk Drive:	160GB; 250GB (optional)
Graphics Resolution:	SD Outputs 4:3 up to 720x480
	HD Outputs 16:9 up to 1920x1080
	Video Resolution 480i, 480p, 720p, 1080i and 1080p 24/30 (HDMI only)
Operating Temperature	15 °C to 42 °C (50 °F to 108 °F)
Operating Humidity	5 to 90% (non-condensing)
AC Voltage	105 to 125 VAC, 60 Hz
Power Dissipation	35 W (depending on features)
Out of Band:	Frequency Agile receiver 70 to 130 MHz
	Bandwidth 2.0 MHz maximum
	Level –15 to 15 dBmV
Digital Input Level	64 QAM –15 to 15 dBmV
	256 QAM –12 to 15 dBmV
Dimensions	15.0 in W x 9.87 in D x 3.2 in H (38.1 cm x 25.07 cm x 8.13 cm)
Weight	8 Lbs. (3.63 kg)

MANUFACTURING OPTIONAL FEATURES

Integrated MoCA™ Home Networking interface (DCX3400-M)
250GB Hard Drive with Shock Mounting

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



Rear view

MOTOROLA

DOLBY DIGITAL • PLUS

HDMI

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