

DCX3200

**ALL-DIGITAL, HDTV, M-CARD HOST
SET-TOP**



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

Single 1GHz digital video tuner (QAM 64/256)

High-definition (HDTV) decode of MPEG-2, MPEG-4 AVC (H.264), VC-1

Audio decode of Dolby® Digital, Dolby® Digital Plus, AAC-LC / HE-AAC, WMA9, MP3

Optional MoCA™ home-networking interface

Independent 1GHz DOCSIS tuner

DOCSIS 2.0+ embedded Cable Modem with support for DSG and down-stream channel bonding (2 down, 1 up)

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

Video scaling (Picture-in-Graphics)

Accelerated 2-D graphics

64 MB Flash (standard), 256 MB DRAM total (standard)

Front Panel LED displays for Power, Data, and Record (MoCA™ only)

Remote and On screen diagnostics

Switched Digital Video Capable

Macrovision®, HDCP, DTCP, and CGMS-A content protection schemes on the respective interfaces

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 Motorola DCX3200 is a High-definition set-top with a single 1 GHz tuner that supports both MPEG-2 and MPEG-4 AVC services. The all-digital DCX3200 includes the latest audio and video output interfaces, including HDMI™ and Dolby® Digital Plus audio. When configured with the optional MoCA™ home networking interface, the DCX3200-M can serve as a multimedia client for accessing content from other compatible devices in the home. An embedded DOCSIS 2.0+ cable modem provides support for DSG and downstream channel bonding.

Bandwidth Efficiency Solutions

The DCX3200 fully supports the growing consumer demand for high-definition programming and high bandwidth advanced applications. The DCX3200 provides new methods of efficiently utilizing limited bandwidth for delivering these services. For example, the DCX3200 is capable of decoding MPEG-4 video streams, requiring significantly less bandwidth than MPEG-2 to deliver comparable quality video services. The 1GHz digital video tuner in the DCX3200 supports future plant expansion, enabling operators to increase the number of available channels. The DCX3200 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.

Home Networking

With the optional MoCA™ Home Networking component, the DCX3200-M provides the flexibility to not only watch your favorite programs on your schedule, but also choose the room in your home where you would like to view your programs. The DCX3200-M serves as a multimedia client that can access and playback recorded programs from a separate MoCA™-enabled DVR set-top within the home over the existing coaxial cabling.

Remote Diagnostic Capabilities

The DCX3200 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

DCX3200

STANDARD INTERFACES

Front Panel
Power, Data, and Record indicators
IR remote control sensor
USB 2.0 Host Type A port
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 – variable
Coaxial and Optical S/PDIF digital audio outputs
USB 2.0 Host Type A port
1394a interface
10/100 Ethernet interface
3.5mm serial port
3.5mm External IR input

SPECIFICATIONS

RF Input Frequency:	54 to 1002 MHz (video and audio)
Memory:	64MB Flash; 256 MB DRAM
Video:	Up to 32-bit color, accelerated 2-D support, and scalable video-in-graphics
Processor:	MIPS, RISC-based
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 40 °C (50 °F to 104 °F)
Operating Humidity	5 to 90% (non-condensing)
AC Voltage	105 to 125 VAC, 60 Hz
Power Dissipation	32 W (depending on features)
OOB Modulation QPSK:	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	10.2 in W x 10.43 in D x 3.0 in H (25.9 cm x 26.5 cm x 7.6 cm)
Weight	5.00 Lbs. (2.27 kg)

MANUFACTURING OPTIONAL FEATURES

DCX3200-M with MoCA™ 1.1 home-networking interface

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



Rear view



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