

# DCX3200-M P3 SET-TOP

ALL-DIGITAL • MPEG-4 • MR-DVR CAPABLE

As competition in the video services industry has increased, Motorola has developed a home network architecture that provides a cost-effective design to meet today's growing demands for HD content.

## Product Overview

The low cost DCX3200-M P3 utilizes a Video Gateway and Client configuration, as well as numerous other features for improving bandwidth efficiency, to provide high-definition video with Dolby Digital sound and on-demand and interactive services for the home environment.

The Motorola DCX3200-M P3 has a small enclosure design that includes a front panel clock and channel display, as well as a front panel Power/Standby button. It 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-M P3 includes the latest audio and video output interfaces, including HDMI™, Award-winning Dolby® Digital Plus audio and Dolby Volume Leveling. With the included MoCA® home networking, the DCX3200-M P3 provides the flexibility to 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.

## Multi-Room DVR

With MoCA technology, you have 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 P3 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.



## Bandwidth Efficiency Solutions

The DCX3200-M P3 fully supports the growing consumer demand for high-definition programming and high-bandwidth advanced applications. It provides new methods to efficiently and cost-effectively utilize limited bandwidth to deliver these services through support of MPEG-4 decode technologies. For example, the DCX3200-M P3 is capable of decoding MPEG-4 video streams, requiring significantly less bandwidth than MPEG-2 to deliver comparable quality video services. It 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 particular program.

## Remote Diagnostic Capabilities

The DCX3200-M P3 utilizes 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.

## Features

M-Card™ (Multi-stream CableCARD) Host support for conditional access

tru2way™ capable platform

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

MoCA® Home Networking Interface

Independent 1GHz DOCSIS tuner

## General Specifications

### STANDARD INTERFACES

#### Front Panel

Power/Standby button
Power, Data, Home LAN, Message, and Record indicators
Clock/Display (4-character, 7 segment)
IR remote control sensor (Motorola/XMP-1)

#### Rear Panel

F - connector for cable input
Side Panel M-Card
HDMI output
YPbPr component output
Baseband composite video output
L/R audio output – variable
Coaxial and Optical S/PDIF digital audio outputs
1394a interface
10/100 Ethernet interface
USB 2.0 Host Type A port
3.5 mm serial port/External IR input

### MANUFACTURING OPTIONAL FEATURES

RF4CE
64MB Flash, 1GB DRAM memory configuration

### SPECIFICATIONS

RF Input Frequency	54 to 1002 MHz (video and audio)
Memory	64 MB Flash, 512 MB DRAM
Video	Up to 32-bit color, accelerated 2-D support, and scalable video-in-graphics
Graphics Resolution	SD Outputs 4:3 up to 720x480 HD Outputs 16:9 up to 1920x1080
Video Output Resolution	480i/p, 576i/p, 720p, 1080i, and 1080p24, 1080p30, and 1080p60 (HDMI only)
Audio	Dolby Digital, Dolby Digital Plus, Dolby Volume Leveling HE-AAC, WMA9, MP3 capable
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	18 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	10.4 in W x 6.3 in D x 1.8 in H (265mm x 46mm x 160mm)
Weight	1.75 Lbs. (.793 kg)



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 (2 down, 1 up)

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

Video scaling (Video-in-Graphics)

Accelerated 2-D and 3-D graphics

64 MB Flash (standard), 512 MB DRAM total (standard)

Front Panel Power/Standby button

Front Panel LED displays for Power, Data, Home LAN, Message, and Record

Clock/Display (4-character, 7-segment)

Remote and On-screen diagnostics

Switched Digital Video Capable

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



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