



# MOTOROLA DCH6416

*ANALOG/DIGITAL, HDTV, DUAL TUNER DVR,  
M-CARD™ HOST SET TOP*

## FEATURES

- M-Card (Multi-stream CableCARD) Host support for conditional access
- Digital Video Recording (DVR) with support for dual recording and watch-and-record functionality
- 160 GB hard drive with shock mounting and fan
- Compatible with Motorola DCT legacy APIs
- Standard-definition (SD), enhanced-definition (ED), and high-definition (HD) MPEG-2 video support with output scaled to 480i, 480p, 720p, or 1080i
- Dual 54 to 864 MHz video tuners
- Digital video (64 QAM/256 QAM)
- Video scaling (Picture-in-Graphics)
- Accelerated graphics
- Motion-compensating temporal filter video noise reduction
- Motion-adaptive de-interlacing
- Dual channel 3-D comb filter for state-of-the-art color and resolution
- Dual MPEG-2 encoders for analog content
- Dolby™ Digital 5.1 and PCM audio
- 16 MB Flash (standard)
- 128 MB DRAM total (standard)
- DOCSIS® 2.0 cable modem with support for DSG
- RF out-of-band (OOB) data transmitter/receiver
- On-screen diagnostics
- Macrovision™, HDCP, 5C DTCP, and CGMS-A content protection schemes on the respective interfaces
- Full-featured front panel display and controls



## TECHNICAL SPECIFICATIONS

### FRONT PANEL

- On/Standby and Message indicators
- Output video format indicator
- 4-character 7-segment display
- 2 recording indicators
- IR remote control sensor
- USB 2.0 Host Type A port



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## **TECHNICAL SPECIFICATIONS**

### **REAR PANEL**

- F-connector for cable input
- M-Card slot
- RF remodulated output (Ch 3/4)
- HDMI output
- YPbPr component output
- Baseband composite video output
- S-video output
- L/ R audio output,
- Coaxial and optical S/PDIF digital audio outputs
- USB 2.0 Host Type A port
- 1394a interfaces (2)
- 10/100 Mbps Ethernet interface
- eSATA interface
- Mini-phone serial port

### **MANUFACTURING OPTIONAL FEATURES**

- M-Card pre-installed, 256 MB DRAM (upgrade from 128 MB)

### **RF INPUT FREQUENCY**

- 54 to 864 MHz

### **MEMORY**

- 16 MB Flash; 128 MB DRAM standard unified
- Legacy platform supported

### **VIDEO**

- Up to 32-bit color, accelerated 2-D support, and scalable video-ingraphics

### **PROCESSOR**

- MIPS, RISC-based

### **GRAPHICS RESOLUTION**

- SD Outputs
  - 4:3 up to 720 x 480
- HD Outputs
  - 16:9 up to 1920 x 1080
- Video Resolution
  - 480i

### **OPERATING TEMPERATURE**

- 50° to 108°F (15° to 42°C)

### **OPERATING HUMIDITY**

- 5 to 90% (non-condensing)

### **AC VOLTAGE**

- 105 to 125 VAC, 60 Hz (external power supply)

### **POWER DISSIPATION**

- 46 W (depending on features)



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## **TECHNICAL SPECIFICATIONS**

### **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**

- 2.76 x 17.2 x 12.70 in. (H x W x D)

### **WEIGHT**

- 12.0 lbs.