The Motorola DCH6416 analog/digital HD DVR Host set-top provides a full set of SDTV, HDTV, and data features and interfaces. In addition to high-definition digital video, the DCH6416 provides superior analog picture quality with dual-channel 3-D comb filters and motion-compensating noise reduction. The DCH6416 supports a wide range of current and future interactive applications running on Motorola’s existing DCT legacy APIs.

**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**
**STANDARD INTERFACES**

<table>
<thead>
<tr>
<th>Front Panel</th>
<th>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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear Panel</td>
<td>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</td>
</tr>
</tbody>
</table>

**MANUFACTURING OPTIONAL FEATURES**

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

**SPECIFICATIONS**

- **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-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, and 1080i
- **Operating Temperature**: 15 ºC to 42 ºC (50 ºF to 108 ºF)
- **Operating Humidity**: 5 to 90% (non-condensing)
- **AC Voltage**: 105 to 125 VAC, 60 Hz
- **Power Dissipation**: 46 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**: 17.2 in W x 12.70 in D x 2.76 in H (43.23 cm x 32.26 cm x 7.01 cm)
- **Weight**: 12.0 lb (5.4 kg)

Certain features may not be activated by your service provider, and/or their network settings may limit the feature’s functionality. Additionally, certain features may require a subscription. Contact your service provider for details.

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