

QIP6416

Hybrid QAM/IP HD/DVR Set-Top Terminal

SPECIFICATION SHEET



FEATURES

- Dual 64/256 QAM tuners support standard- and high-definition MPEG-2 formats
- Integrated 160 GB hard drive for DVR functionality
- Embedded IP networking over coaxial cable using MoCA technology
- Two-way IP data communication
- Powerful (MIPS) RISC processor
- Out-of-band data receiver
- Full range of industry-standard video, audio, and data outputs (for details, see "Specifications")
- Dolby® 5.1 digital audio
- Decrypts CSA or DES
- MediaCipher® access control
- Macrovision® copy protection
- Front-panel LED display with navigation buttons
- Digital on-screen diagnostics
- SmartCard interface
- Switched accessory outlet

BENEFITS

- Superior all-digital video and sound quality for a true home theater experience
- Record many hours of SD and HD programming
- Process QAM and IP video transports
- Embedded IP networking supports high bandwidth data applications
- Maintain a list of recorded programs
- Watch what you want, when you want!
 - Watch and record select programs
 - Schedule multiple recordings through the interactive program guide (IPG)
 - Watch two programs and easily switch between them using the remote control
 - Record one program while viewing another program
 - Watch a recorded program while recording two other programs
- May be used as a home media server to enable viewing of recorded programs on set-tops throughout the home via MoCA
- Advanced hardware platform supports feature-rich applications and graphics
- Supports typical digital TV functionality, including the IPG, video on demand (VoD), and commercial-free, CD-quality music



The Motorola QIP6416 decodes digital standard- and high-definition MPEG-2 video formats transmitted via QAM or IP. Its integrated dual-tuner digital video recorder (DVR) offers watch-and-record capability. The QIP6416 supports embedded IP networking using Multimedia Over Coax Alliance (MoCA) technology. The resulting IP connectivity enables communication with other set-tops throughout the home and VoD over IP.

SPECIFICATIONS

Input frequency

Video (QAM)	54 to 860 MHz
IP	1125 to 1425 MHz

Home network

MoCA-compliant

Outputs

HDTV	Component video (Y Pb Pr), IEEE 1394, HDMI
Standard TV	S-Video, composite video, RF remod (optional)
Audio	Left/right baseband, optical and coaxial S/PDIF
Data	USB 2.0, 10/100Base-T Ethernet, SATA (optional)

Memory

DRAM	128 MB standard unified
Flash	16 MB
NVMEM	256 KB

CPU

Minimum 350 MIPS

Video

MPEG-2

Video resolution

480i, 480p, 720p, 1080i

Graphic resolution

Up to 720 x 480

Colors

32 bit

Digital input level

64 QAM	-15 to +15 dBmV
256 QAM	-12 to +15 dBmV

RF Data carrier

QPSK-modulated

Frequency	Agile receiver 70 to 130 MHz
Bandwidth	1.5 MHz
Level	-15 to +15 dBmV

IP Data Carrier

MoCA

Frequency	1125 to 1425 MHz
Bandwidth	50 MHz
Level	0 dBm

Operating temperature

15 to 40°C (59 to 104°F)

Operating humidity

5 to 95% (noncondensing)

AC voltage

105 to 125 VAC, 60 Hz

Power dissipation

35 W nominal at 115 VAC

Size

17.02 in. (43.23 cm) W, 10.78 in. (27.38 cm) D, 2.75 in. (7.00 cm) H

Weight

11.5 lbs.

Hard disk

160 GB



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