

## DCT2500



The Motorola DCT2500 is the evolution of the highly popular DCT2000 - the world's most widely deployed digital cable set-top - offering excellent performance and proven reliability at an attractive price point. It provides state-of-the-art digital compression technology, allowing operators a broad range of revenue-generating services.

The DCT2500 can be configured to support real-time, reverse path communications and uses DigiCipher® II, Motorola's Emmy award-winning access control and encryption technology. It can support a wide spectrum of interactive application services including VOD, Internet, Electronic Program Guide (EPG), Impulse Pay-Per-View, e-mail, home shopping and more.

Platform versatility means the Motorola DCT2500 can grow as your home broadband access needs grow. Its 64 and 256 QAM digital processing technology significantly boosts channel capability while delivering unsurpassed digital audio and video quality to TV viewing, giving broadband operators the flexibility and scalability they need.

In summary, the advanced user features and capabilities of the DCT2500 support a host of new services and provide an unparalleled level of reliability, usability and affordability.

*The DCT2500 is a full featured digital set-top providing a wide array of capabilities, ease of use and affordability.*

### **HIGHLIGHTS INCLUDE:**

- Open architecture supports downloaded third-party software applications
- Scaled video
- High-resolution on-screen graphics
- Enhanced memory
- Advanced security via Motorola DC-II Conditional Access and Harmony DES-based encryption
- MPEG-2 Digital Video Processor
- ATSC standard Dolby® Digital (AC-3) audio processor



## FEATURES

### Features

- 175 MHz MIPS 32 CPU with 8K instruction and 8K data caches
- High speed, unified memory design with support for up to 64 Mbytes of DDR SDRAM
- 64 PID filters individually assignable to in-band or out-of band streams
- Video decoder with enhanced VBI data processing capability
- Analog/Digital video scaling (picture in graphics)
- High resolution graphics with support for multiple planes as well as current DCT2000 modes
- MPEG-2 Digital Video Processor
- ATSC standard Dolby Digital (AC-3) audio processor
- ITU standard 64/256 QAM/FEC/enhanced adaptive equalizer
- On-board real-time RF return (256 Kbps)
- Clear Analog Channel Processor with BTSC Decoder
- 54-860 MHz tuner
- DES-based encryption/DCII access control
- Digital diagnostics
- Frequency agile 2.048 Mbps out-of-band data receiver
- Macrovision copy protection
- Wide screen (16 x 9) video support
- Full feature access from front panel
- Switched accessory outlet

### Optional Features

- Motorola and compatible analog descrambling
- IR blaster tether
- RF bypass or A/B switch
- Telephone modem (14.4 bps)
- S-Video output
- USB Host 1.1 Port
- Universal remote (DRC450)
- Keyboard

### Standard Interfaces

- Dolby® 5.1 Digital Audio Output
- RF and Baseband Output (Video, L/R Audio) Ports
- IR Blaster Port
- TVPASS™ renewable security connector
- High/Low speed data output (27 and 2 Mbps)
- RS 232 Serial Port
- 4 digit, 7 segment LED display with IR receiver for remote and/or keyboard

### General Specifications

Dimensions	17.13 W x 13.25 H x 2.75 D
Weight	8.6 lbs.

Specifications are subject to change without notice.



MGBI

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