

CISCO 8652HDC

MULTIMEDIA SERVICE GATEWAY

FEATURES

- Dual-tuner DVR allows one program to be recorded while viewing or recording another
- 160 GB Internal Hard Drive stores up to 90 hours of SD or 20 hours of HD programs
- 320 GB Internal Hard Drive (optional) stores up to 180 hours of SD or 40 hours of HD programs
- Personal media player enables display of photos and playback of video and audio from standards based home network connected devices (optional software)
- Ethernet Connection enables a connection to the home IP LAN for advanced services such as content sharing to the set-top from retail-purchased electronic devices
- Whole Home DVR enables sharing and managing of video services throughout the home to other connected DVRs, set-tops, and consumer electronic devices
- MoCA Connection enables an IP LAN connection over coaxial cable, which minimizes the need for new wiring in the home
- Digital Transmission Content Protection over IP (DTCP-IP) provides encrypted content protection, such as “copy-one-generation” or “copy-never” based upon content’s copy control information (CCI), when output through an IP connection to an authenticated device

TECHNICAL SPECIFICATIONS

FRONT PANEL

- USB 2.0 Host, software controlled
- IR Receiver, 10 Buttons: Power, List, Exit, Info, Guide, Vol+, Vol-, Ch+, Ch-, Select
- Four 7-segment digits, Power (icon), Message (icon), Record (icon), Home Networking (icon) HDTV, 5.1, Auto, 1080i p, 720i p, 480i p, software controlled
- Color: Black finish, black lens, black buttons, grey text
- Branding: Cisco, model number, provision for service provider branding, HDTV Cable

BACK PANEL

Connections In

Cable In

Connections Out

HDMI™ (1.3) with CEC, YPbPr, Optical Digital Audio, Coax Digital Audio, Video, L/R Audio 1, S-Video, L/R Audio 2, IR, TV Cable Out, IEEE-1394 4-Pin, software controlled, see Note 1





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TECHNICAL SPECIFICATIONS

BACK PANEL CONT.

Output Resolutions

1920 x 1080i 60 Hz, 1920 x 1080p 30 Hz, 1920 x 1080p 24 Hz, 1280 x 720p 60 Hz, 720 x 480p 60 Hz, 720 x 480i 60 Hz, software controlled, see Note 1

Output Control

Scaled video in graphics, scaled HD video in graphics, graphics on HD and SD outputs, aspect ratio control, native resolution pass-thru, HD down convertible to SD, software controlled

Connections-Interactive

eSATA, Cable In with MoCA, DTCP-IP on MoCA, USB 2.0 Host, support for generic serial interface via USB, RJ-45 Ethernet, DTCP-IP on Ethernet, software controlled

Power Input

Polarized 2-prong modular cord plug, 115 VAC, 60 Hz

Power Output

Polarized 2-prong outlet, 500W max, at input line voltage, software controlled

Labels

Serial Number, RF MAC Address, eCM MAC Address, M-Card Serial Number (if optional M-Card module is included), M-Card MAC Address (if optional M-Card module is included), Removal evident M-Card label (if optional M-Card module is included), Cisco, FCC, UL, Shock Warning, CATV Converter, Made In

BACK PANEL CONT.

Labels-Bottom

Scientific Atlanta, Inc., STB Model, Assembly P/N, Rev, Date, FCC, Patents, RSA

TUNING AND DECODING

DVR

Dual tuning, Dual Record, Pause, Rewind, Fast-Forward, Record one program while viewing or recording another, software controlled

Picture in Picture

Digital, HD, Analog, software controlled

Tuning

Dual QAM 64 or 256, Dual Analog, In-Band 54 MHz - 1 GHz, QPSK out-of-band (OOB) 70-130 MHz, DOCSIS 91-867 MHz, MoCA 1.0-1.5 GHz

Video Decoders

Dedicated Dual 400 MHz VLIW CPU Processors, Dual MPEG-4 (H.264) up to HP@L4.0 (HD), Dual VC1 AP@L2&3, Dual MPEG-2 up to MP@HL, 1920 x 1080i 60 Hz, 1920 x 1080p 30 Hz, 1920 x 1080p 24 Hz, 1280 x 720p 60 Hz, 720 x 480p 60 Hz, 720 x 480i 60 Hz, video scaling, software controlled

Audio Decoders

Dedicated 250 MHz DSP CPU Processor, Digital to 5.1, MPEG-1 and MPEG-2, BTSC/SAP, Dolby Digital+, AAC, AAC+, software controlled

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TECHNICAL SPECIFICATIONS

TUNING AND DECODING CONT.

Conditional Access

Separable security with Multi-Stream CableCARD interface

Encoders

Audio BTSC for TV Cable (RF) Output, Dual Video and Audio (from analog) for recording, software controlled

Graphics Engine

2.5 Dimension graphics, up to 960 x 540 resolution, 32 bit (16 million) color

DAVIC

DAVIC 1.2, QPSK FDC at 1.5 Mbps, QPSK RDC at 1.5 Mbps, software controlled

DOCSIS

OOB and Interaction via DOCSIS 2.0, DOCSIS Set-top Gateway, Baseline Privacy Interface, software controlled

MEMORY/STORAGE

- Unified RAM: 384 MB, see Note 2
- Video Encoder: 16 MB
- Flash: 2 MB
- CPU NVM: 16 KB
- Hard Drive: 160 GB, 320 GB (optional), Internal SATA, 1.5 Gbs
- Boot Partition on HDD: 256 MB, see Note 3
- Hard Drive Expansion: External SATA (eSATA), 1.5 Gbs, on rear panel, software controlled

PROCESSORS

- Application/CPU: 700 MHz (1000 MIPS)
- Video/Graphics: Dual 400 MHz VLIW CPUs
- Audio: 250 MHz DSP CPU
- DOCSIS CPU: 333 MHz CPU
- Network CPU: 400 MHz CPU

DIMENSIONS

- 3.25 x 15.6 x 11.2 in.
- 8.3 lbs.
- Carton: 6.12 x 18.0 x 14.0 in. (H x W x D)
- Total Weight: 11.6 lbs.

OPERATING CONDITIONS

Placement

Locate with at least 2 inches of open space above and on each side

Room Temperature

32 to 105°F (0 to 40°C) during operation

Power Dissipation

50W maximum



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NOTES

1. 1080p/24 or 1080p/30 output formats are available on HDMI, if those formats are presented to the set-top box at its input. Incoming video formats will not be converted to either of these for output. Output of these formats is under software control.

2. Axiom DVR Middleware for tru2way (formerly OCAP) support is recommended only for the 8600 models that have 384 MB RAM.

3. Boot Partition provides space on the hard drive for storing the set-top's core software. Additional non-core application storage space may be made available on the hard drive. The Boot Partition is analogous to a portion of the role traditional flash memory serves on non-hard drive set-tops.