



CISCO 4652HDC

HIGH DEFINITION SET TOP

FEATURES

- 1 GHz Tuning enables cable operators to expand network bandwidth to provide additional services such as VOD, tru2way, DOCSIS 2.0, and high-speed data
- MPEG-4 (H.264) Decoding supports compression technology that provides better video quality at approximately half the data rate of MPEG-2
- DOCSIS 2.0 provides greatly increased upstream throughput for future advanced services and provides a path for future IP video services (optional software)
- USB 2.0 Connection enables a host connection to peripheral devices such as navigation controllers, network adapters, and memory media readers
- MoCA Connection enables an IP LAN connection over coax cable, which minimizes the need for new wiring in the home
- 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

TECHNICAL SPECIFICATIONS

FRONT PANEL

- Vol+, Vol-, Ch+ Ch-, Select, Guide, Info, Exit, Settings, IR receiver, Power
- USB 2.0 host, software controlled
- Four-segment LED digits, Power icon, Message icon, HDTV, 5.1, Auto, 1080i/p, 720i/p, 480i/p
- Color: Black, grey text
- Branding: Cisco, model number, provision for customer brand

BACK PANEL

Connections In

Cable In with MoCA

Connections-Interactive

USB 2.0 Host, RJ-45 Ethernet, software controlled

Connections Out

HDMI™ (1.3) with CEC, IEEE 1394 (4-pin), Dual L/R Audio, Baseband Video, YPbPr, IR, S-Video, Optical Digital Audio, Coaxial Digital Audio Out, RF Out, Switched Outlet, See Note 1

Output Resolutions

720 x 480i 60 Hz, 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





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TECHNICAL SPECIFICATIONS

BACK PANEL CONT.

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

Power Input

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

Power Output

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

Labels

Serial Number, eCM MAC Address, M-Card Serial Number, M-Card MAC Address, RF MAC Address

MEMORY/STORAGE

- RAM: Minimum of 128 MB, see Note 2
- Flash: Minimum of 32 MB
- NVM: Minimum of 16 KB

PROCESSORS

- Application/CPU: 700 MHz (approximately 1000 dMIPs)
- DOCSIS: 333 MHz CPU
- Network: 400 MHz CPU

TUNING AND DECODING

Tuning

Analog (4652HDC), QAM 64 or 256, In-Band 54 MHz–1 GHz, A/V in display, QPSK out-of-band (OOB) 70–130 MHz, DOCSIS 91–867 MHz, MoCA 1.0–1.5 GHz

Video Decoders

MPEG-2 MP@ML, MP@HL (SD, 720 x 480i), MPEG-4 (H.264) up to HP@L4.0 (HD), VC1, Video Scaling, software controlled

Audio Decoders

Dolby™ Digital to 5.1, MPEG-1 and MPEG-2, Dolby Digital+, AAC, AAC+, AC3, MP3

Conditional Access

Separable security with M-Card

Graphics Engine

Up to 960 x 540 resolution, 32 bit (16 million) color

DAVIC

FDC (Forward Data Channel) 1.54 Mbps QPSK, RDC (Reverse Data Channel) 1.54 Mbps QPSK, FAT QAM Channel Downstream, software controlled

DOCSIS

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



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TECHNICAL SPECIFICATIONS

DIMENSIONS

- 2.25 x 13.75 x 9 in. (HxWxD)
- 4.0 lbs.
- Carton of 5 units = 16.5 x 11.25 x 16.5 in. (HxWxD)
- Total Weight: Carton of 5 units = 24.0 lbs

ENVIRONMENT SPECIFICATIONS

- Place with at least 2 inches of open space above and on each side
- Temperature should be 32° to 105°F (0° to 40°C during operation
- Storage Temperature should be 14° to 158°F (-10° to 70°C)
- Power Dissipation: 50W maximum peak, ENERGY STAR Tier 1

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 Middleware for tru2way (formerly OCAP) support is recommended only for the 4600 models that have a minimum of 256 MB RAM.
3. In order to use the ENERGY STAR name or marks in association with this product deployed to subscribers, service providers must first sign a Partnership Agreement with EPA and abide by all of the conditions set forth in the ENERGY STAR Program Requirements for Cable, Satellite, and Telecom Service Providers. ENERGY STAR is a registered mark owned by the U.S.government and its use is reserved for partners. Service providers that have not signed an ENERGY STAR Partnership Agreement are not to distribute boxes labeled with the ENERGY STAR.