



## Cisco Explorer 4600HDC High-Definition Set-Top Series with MoCA Options

### Deliver Advanced Multimedia Services for the Connected Life at Home

Your customers are demanding new services quickly, and they want these services delivered on more and more devices. At Cisco®, we call this the Connected Life at Home. The Connected Life at Home requires a deep integration between a provider's network and the home.

Cisco's expertise in both network and customer premise technologies enable the differentiable services your customers demand. You can accelerate the transition from service provider to experience provider by evolving your network to a medianet. A medianet is an intelligent network optimized for rich media that is media, end point and network aware to ensure an optimal quality of the total experience. Cisco next generation set-tops are an extension of medianet and serve as media gateway enablers of The Connected Life at Home. When combined together, cable service providers have a foundation for innovative new multimedia experiences.

We believe that the Connected Life at Home, enabled by Cisco, can deliver three benefits to your site:

1. Strengthen your bundle offering by bridging services and experiences that were once separate.
2. Open new revenue opportunities built around multimedia experiences consumers can enjoy today and into the future.
3. And finally, maximize the efficiency of your network operations so that it is more intelligent, integrated and cost-effective.



Cisco Explorer 4600HDC High-Definition Set-Top Front Panel



Cisco Explorer 4600HDC High-Definition Set-Top Back Panel

The Cisco Explorer® 4600HDC High-definition (HD) Set-top Series combines the quality of QAM-delivered video with IP-based interactivity, resulting in innovative service possibilities that can help differentiate your site from the competition. This set-top series merges HD video capability and broadband digital video services, making it easier than ever before to convert basic or expanded basic service subscribers to an HD digital video service level. With the Explorer 4600HDC, your customers can enjoy a whole home video experience.

## Cisco Explorer 4600HDC Series Features and Capabilities

### Network Utilization Enhancements

- **1 GHz Tuning** - Allows service providers to expand network bandwidth.
- **MPEG-4 (H.264) Codec** – Video compression technology at about half the bandwidth requirements of MPEG-2, with higher video quality.

### Optional tru2way or Conventional Network Support

- **M-Card Interface** – Multi-stream CableCARD module for separable security. Embedded security options available to cable service providers that qualify.
- **Axiom™ Middleware** – Supports tru2way™ applications, such as service navigators and games.
- **Support for CableLabs Advanced Set-top Gateway (ADSG)** – Enables command and control signaling between the set-top and service provider network. DAVIC reverse path transmission and Video-over-DOCSIS 2.0 with downstream channel bonding are available.
- **SARA (Scientific Atlanta Resident Application) DVR Software** – Native software for navigation and user interfaces.

### Home Networking Features

- **USB 2.0 Connection** – Enables a host connection to peripheral devices such as navigation controllers, network adapters, and memory media recorders (optional software).
- **Ethernet Connection** – Enables standard interface connection to the home IP LAN for advanced video sharing applications such as HD-quality video content distributed between the set-top and Consumer electronic devices. This capability is further optimized with the Cisco DRG2800 IP Services Gateway.
- **Digital Transmission Content Protection over Internet Protocol (DTCP-IP™)<sup>1</sup>** – An encryption standard embraced by production studios and cable operators for secure content distribution across all DTCP-IP supported devices, including those available through retail. DTCP-IP is embedded onto the Cisco silicon.
- **Digital Living Network Alliance (DLNA™) Software** – Optional software framework that enables devices to connect, discover and communicate with one another over a home network.

### High-Definition Features

- Video output to the HDTV displays in multiple resolutions and allows subscribers to maximize their HDTV image display.
- Stretch and zoom of the video picture enables subscribers to maximize the viewable area of their HDTV display.
- Connection from the Explorer 4600HDC Set-top Series to the HDTV through the YPbPr, HDMI™ or 1394 connectors.

## Improved Application Specific Integrated Circuit (ASIC)

Based on our internally developed sixth-generation set-top chipset, our innovative ASIC provides a 300 percent improvement in processing power over previous generation product. This increase in processor speed delivers an improved experience with current and future tru2way applications. In addition, our ASIC includes an integrated network processor to manage and enhance the connected home experience – providing a performance differentiation against your competition.

## Multimedia over Coax Alliance (MoCA)<sup>2</sup> Configuration

MoCA creates a common standard for distributing IP-encapsulated digital video and other content through existing coaxial cable in the home. Benefits of MoCA include no new wires; no installation or truck roll; no interference with existing networks; operation within any coaxial environment; complements any wireless network.

Our MoCA set-tops, particularly when combined with the Cisco DRG2800 IP Services Gateway, can help you prepare for delivering the advanced features and capabilities consumers demand, while providing outstanding opportunities to increase average revenue per subscriber, reduce customer turnover through expanding and protecting the customer bundle, and boost service differentiation. Set-tops with the MoCA option function as client devices for HD Whole Home Video services.

## Cisco Explorer 4600HDC Series Models

Cisco offers multiple models within the Explorer 4600HDC Series to address your specific objectives. Each HD interactive set-top model includes DTCP-IP and options for Ethernet and MoCA configurations.

- **Explorer 4652HDC** – Tunes digital and analog video; Ethernet and MoCA configurations are standard.
- **Explorer 4650HDC** – Tunes digital and analog video; optional Ethernet build.
- **Explorer 4642HDC** – Tunes digital video only; Ethernet and MoCA configurations are standard.
- **Explorer 4640HDC** – Tunes digital video only; optional Ethernet build.

### Learn More

For more information about the Cisco Explorer 4600HDC High-definition Set-top Series, contact your Cisco sales representative or email [sales@cisco.com](mailto:sales@cisco.com).

<sup>1</sup> DTCP-IP option is available on the Cisco 8600, 4600, 1640, and 1540 Series

<sup>2</sup> MoCA options are available on specific models within the Cisco 8600, 4600, 1640, and 1540 Series



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