



## Cisco's Explorer 8600HDC DVR Set-Top Series with M-Card Interface

### 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.

To help address the increasing demands of your customers, the Cisco Explorer® 8600HDC Digital Video Recorder (8600HDC DVR) combines traditional QAM-based video with the power and flexibility of next generation Internet protocol (IP) video, delivering the highest quality video from the network all the way to the subscriber home.



Cisco Explorer 8600HDC High-Definition  
DVR Front Panel



Cisco Explorer 8600HDC High-Definition  
DVR Back Panel

### The Cisco 8600HDC DVR Expands and Differentiates Your Service Portfolio

Here are a few ideas of how the Explorer 8600HDC DVR Series can help enable new consumer home media experiences. These experiences can be packaged as part of your site's expanded service bundle and capture new revenue:

- Create a new category of DVR service called Whole Home Video, where DVR functionality is possible across all TV sets in the home.
- Improve interface and connectivity between consumer electronics and multimedia devices, such as docking a digital camera to the TV, then transferring the high-resolution image to a PC.
- Offer more interactive and community applications, such as targeted advertising and content.
- Deliver more integrated, video-rich applications, such as instant messaging between a PC and cell phone, home monitoring services, and caller ID on TV when combined with the Cisco DRG2800 IP Services Gateway.

## Cisco Explorer 8600HDC DVR Series

The Cisco 8600HDC DVR Set-top Series is a multimedia gateway, enhancing application capabilities and control. Based on our internally developed sixth-generation set-top chipset, our innovative Application Specific Integrated Circuit (ASIC) silicon provides a 300 percent improvement in processing power over previous ASIC. This translates into faster processing time for VoD, programming guides, and pay-per-view (PPV) applications. Advanced video and audio capabilities can be handled real-time within the set-top hardware.

## Cisco Explorer 8600HDC 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.

### DVR and Home Networking Features

- **Whole Home Content** – Share DVR or user-generated Internet based video content across multiple set-tops or personal computers in the home.
- **Dual-Tuner DVR** – Enables subscribers to watch one program while recording another.
- **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.

### Improved Application Specific Integrated Circuit (ASIC)

Based on our internally developed sixth-generation set-top chipset, our innovative ASIC silicon provides a 300 percent improvement in processing power over previous ASIC. This increase in processor speed is important for an improved experience with current and future tru2way applications.

### 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 8600HDC DVR Series Models

Cisco offers multiple models within the Explorer 8600HDC DVR Series that are part of its intelligent end-to-end media-aware network. Each HD interactive set-top model includes DTCP-IP as well as options for Ethernet and MoCA configurations.

- **Explorer 8652HDC** – Tunes digital and analog video, and includes the Ethernet and MoCA configurations as standard
- **Explorer 8650HDC** – Tunes digital and analog video
- **Explorer 8642HDC** – Tunes digital video only, and includes the Ethernet and MoCA configurations as standard
- **Explorer 8640HDC** – Tunes digital video only

### Learn More

For more information about the Cisco Explorer 8600HDC DVR 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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