

Explorer® 3240HD™ Digital-Only Set-Top

Description

The Explorer® 3240HD™ Digital-Only Set-Top provides subscribers with improved video/audio quality and the flexibility to support interactive applications and services.

The 3240HD offers cable service providers the ability to create a digital content delivery system for the cable subscriber. The transition to a digital system will free bandwidth for additional services.

Features

- The 3240HD is a digital-only set-top that will tune standard-definition (SD) and high-definition (HD) digital signals available on the cable system to which it is connected. The digital tuning capability provides a clearer noise-free picture to the subscriber's display device. Because this is a digital-only set-top, it is unable to display analog services.
- The 3240HD decodes all 18 ATSC digital video formats, including the 6 HD digital formats for HDTV. All standard-definition digital formats are decoded as well. This comprehensive level of decoding capability in one set-top enables cable service providers to quickly scale HDTV video services for digital subscribers.
- The 3240HD can output video to the HDTV display in four resolutions: 480i, 480p, 720p, or 1080i. These resolutions, or scan rates, allow subscribers to select the scan rate best suited for their HDTV. Subscribers can stretch and zoom the video picture to maximize its viewable area on the HDTV display.
- To meet the demands of existing and future network configurations, the 3240HD offers power, capacity, and compatibility. The integrated internal DAVIC cable modem allows the 3240HD to communicate instantly with the cable headend to promote a broad range of interactive entertainment, information, and communication services. Over 40 MB of application and program memory, along with the 166 MHz RISC microprocessor, manage multiple program tasks and applications with speed and power.
- Taping an HD broadcast to an analog VCR is seamless with the 3240HD. The set-top simultaneously displays the HD image and downconverts it to an SD image through the NTSC outputs. In order to make recording digital services easier, the optional VCR Commander™ Service integrates the interactive TV program guide with the VCR so that subscribers simply point-and-click to setup and record programs.



3240HD Front Panel



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Specifications

Feature	Benefits
Analog Component HDTV Outputs	Provides YPbPr outputs for quick and easy connection to most HDTVs
Dual Audio Outputs with Composite Video Output	Allows simultaneous connection to the audio inputs on the HDTV as well as the audio and video inputs on a VCR
DAVIC Reverse Path Data Transmitter	Allows IP-based, real-time, two-way communication between the 3240HD and the headend Enables cable service provider to offer two-way services such as Internet browsing, video-on-demand (VOD), subscription VOD (SVOD), e-mail, and real-time chat
MPEG-2 MP@HL High Definition Digital Video Decompression	Allows decompression and presentation of audio and video Delivers the following video resolutions: 1920 x 1080i 720 x 480p 1280 x 720p 720 x 480i
Dolby® Digital Audio and MPEG-1 Audio Support	Supports digital audio decoding of two-channel MPEG-1 Layers I & II and Dolby Digital with up to 5.1 channels of multi-channel surround sound. Also downmixes multi-channel Dolby Digital programs to surround-compatible left/right outputs.
PowerKEY® Conditional Access System	Provides digital security using an RSA encryption algorithm that mathematically matches pairs of keys
PowerTV® Operating System with HTML Client Engine	Offers stable operating system and open Application Programming Interfaces (APIs) to support native applications and third-party middleware applications
Enhanced Graphics Engine	Displays up to 65,000 colors simultaneously Enables high-resolution 640 x 480 IPG graphics while simultaneously scaling MPEG-2 video
Automatic Scaling of MPEG-2 Video for IPG Window	 Scales MPEG-2 video for optimal viewing in the IPG window regardless of whether the subscriber is watching an HD or SD channel on either a widescreen or standard 4:3 TV
Powerful 32-bit RISC Processors	Features a 166 MHz (166 MIPS) processor to perform tasks and launch applications quickly
Over 40 MB Memory	Flash: 16 MB Applications DRAM: 32 MB Media DRAM: 16 MB NVM: 4 KB
64 and 256 ITU J.83 Annex B QAM Support	Supports open standards for QAM delivery and demodulation
Digital Service Tuner	Allows MPEG-2 digital channels to be tuned and displayed
DAVIC Compliant Integrated Cable Modem	Provides a high-speed data forward path to the 3240HD and return path to the headend
Both Internal Security Microprocessor and Smart Card Slot	Provide hardware-assisted conditional access options with capability to upgrade the security, if ever needed

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Specifications, continued

Feature	Benefits
Macrovision® Copy Protection Support	Activation allows cable operators to add another layer of copy protection software, called Macrovision, that restricts unauthorized subscribers from copying protected transmissions such as VOD and SVOD to the analog composite outputs
Universal Serial Bus (USB) Interface	Front panel USB port for easy-to-access connection with home consumer devices such as USB keyboards
BTSC/SAP Decoder	Provides stereo sound on analog channels through the baseband left and right outputs
S/PDIF Digital Audio Interface	Supports interconnection with surround-sound receivers using coaxial- and optical-type connectors
Integrated VCR Commander Service	Automates the recording of selected video programs; requires IR Blaster Cable
Provision for Name Branding	Allows you to brand the 3240HD with your company name and logo
DVI 1.0 Digital HDTV Output with Support for High-Bandwidth Digital Content Protection (HDCP)	DVI 1.0 port with HDCP supports digital connection to an HDTV supporting the DVI interface HDCP provides a copy protection interface between the 3240HD and HDTV
Dual IEEE 1394 Digital Outputs with Digital Transmission Content Protection (DTCP)	Dual IEEE 1394 outputs with DTCP provide a 400-Mbps digital interconnection to a 1394-equipped HDTV The 1394 ports provide a copy protection interface between the 3240HD and the connected consumer device
Optional RF Bypass	Allows the video signal to internally bypass the 3240HD to an SD input on the HDTV
Optional RGB Adapter	Converts the video from the YPbPr output into an RGB format with horizontal and vertical sync for HDTVs requiring the RGB input signal

3240HD Dimensions	Dimensions
Product Dimensions (WxDxH)	15.60 in. x 11.20 in. x 3.25 in. (39.7 cm x 28.5 cm x 8.3 cm)
Product Weight	8.3 lbs (3.8 kg)
Carton Dimensions (WxDxH)	18.00 in. x 14.00 in. x 6.12 in. (45.8 cm x 35.6 cm x 15.6 cm)
Weight Including Packaging	11.6 lbs (5.3 kg)

3240HD Placement	Temperature Range and Placement
Room Temperature (Operating)* *Locate the 3240HD with at least 2 in. of open space above and on each side	40°F to 105°F (5°C to 40°C)

Ordering Information

Contact your Sales Representative for product availability in your area.

Explorer 3240HD Digital-Only Set-Top



Set-Top

Part Number	Description
4010048	Explorer 3240HD, Digital-Only, High Definition Set-Top (16 MB Flash / 32 MB DRAM memory, with DVI 1.0 Digital HDTV Output and Dual IEEE 1394 Digital Outputs)

Cables

Description	Product Photo	Part Number
Optional IR Blaster Cable (8 ft)		735994
Optional IR Extender Cable		1001807 (12 ft) 4006725 (25 ft)
Spare YPbPr and Audio Left/Right Cable Kit (10 ft)		1000944



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