Scientific Atlanta

Explorer® 8000
Home Entertainment Server

Description

The Explorer® 8000 Home Entertainment Server merges "home entertainment server" storage and computing power with broadband digital services to deliver the ultimate entertainment, information, and communications platform.

The Explorer 8000 Home Entertainment Server supports digital video recording (DVR), picture-in-picture (PIP), plus all of the latest interactive services such as video-on-demand (VOD), Web browsing, email, games, and television commerce.

The Explorer Home Entertainment Server features a standard 80-GB hard drive for recording TV programs. Two tuners plus a dual MPEG encoder provide the technical backbone for delivering multiple digital programs simultaneously and permitting the recording of analog programs. For example, the subscriber can record two programs and simultaneously playback a third program from the hard drive. Using the PIP feature, two of those programs can be viewed simultaneously. In effect, the Explorer Home Entertainment Server upgrades an ordinary TV to the viewing capacity of two interactive TVs loaded with DVR capability.

The Explorer 8000 Home Entertainment Server also provides an extensive set of input/output capabilities, including convenient front panel access to a USB port, multiple composite video and audio jacks, and dual IEEE 1394 ports that allow connection to other 1394-enabled devices such as external hard drives.

The Explorer 8000 Home Entertainment Server is fully backwards compatible with existing Scientific-Atlanta® digital set-tops and headends and meets major industry standards including OpenCable, CableLabs, SCTE, and DAVIC.

Ordering & Availability	
Part Number:	• 736360
Standard Features:	• 80 GB Hard Disk Drive • Digital Video Recording • Two Tuners with Picture-In-Picture • 328 MIPS with Dual CPUs • 16 MB Applications DRAM • Dual Independent Audio/Video Outputs • Front Panel USB • Processes All Analog and Digital Services
Optional Features:	• Expanded Memory • Rear Panel USB Port • 10BaseT Ethernet

Features

Reverse Path DAVIC Data Transmitter	• Allows IP-based, "real-time," two-way communication between the set-top and headend • Enables MSO to offer two-way services such as Web browsing, video-on-demand, and email • Transmits at up to 1.544 Mbps
MPEG-2 MP@ML Standard Definition Digital Video Decompression	• Allows transport and decompression of audio and video signals
80 GB Hard Disk Drive with Digital Video Recording (DVR) Capability	• Allows up to 50 hours of video to be stored using DVR functions; subscribers can pause, rewind, fast forward, record, and re-play live programs at the same time they are being recorded to the 80-GB hard drive
Dual Analog and Digital Service Tuners	• Allows both analog and MPEG-2 digital channels to be tuned and displayed • Allows two programs to be displayed simultaneously
Dual MPEG Encoder	• Allows up to two different analog programs to be digitally encoded onto the hard disk drive simultaneously
Powerful 32-Bit RISC Processors	• Features two 164 MHz (328 MIPS total) processors
PowerTV® Operating System	• Offers stable operating system and open Application Programming Interfaces (APIs) to support native applications and third-party middleware applications • Allows upgrades using a network download
Enhanced Graphics Engine	• Displays up to 65,000 colors simultaneously • Enables high-resolution 640 x 480 graphics while simultaneously scaling standard- or high-definition MPEG-2 video
Over 48 MB Memory	Includes the following memory allocations: • 8 MB Flash memory to store operating system and resident application software • 16 MB Applications DRAM • 8 MB Media DRAM for MPEG decoding and graphics • 16 MB DRAM for MPEG encoding • 8 KB non-volatile memory to store user settings
64 and 256 ITU Annex B QAM Support	• Supports open standards for QAM delivery and demodulation
PowerKEY® Conditional Access System	• Secures digital services using the RSA encryption algorithm that mathematically matches pairs of keys
Dolby® AC-3® and Musicam Digital Audio	• Supports leading digital audio standards

Features

BTSC/SAP Decoder	• Provides stereo sound on analog channels through the composite baseband left and right outputs
S/PDIF Digital Audio Interface	• Supports interconnection with surround sound receivers
Dual Composite Audio/Video Outputs	• Allows connection to TV or VCR
Composite Audio/Video Inputs	• Supports interconnection to home consumer devices such as VCRs for video pass-through to the TV, or camcorders for video storage to the hard drive
Both Internal Security Microprocessor and Smart Card Slot	• Provides hardware-assisted conditional access options with capability to upgrade the security, if ever needed
Macrovision®Copy Protection	• Can support MSO capability to restrict unauthorized subscribers from copying digital services such as pay-per-view and video-on-demand
Universal Serial Bus (USB) Interface	• Allows easy, front panel interconnection with home consumer devices such as digital cameras • Optional second USB port available on back panel
Dual IEEE 1394 Interface	• Supports a 400 Mbps interconnection to home consumer devices such as an HDTV set, hard disk drive, camcorder, etc.
Custom Branding Insert	• Allows branding of the Explorer Home Media Server with your service or company's identifier
Full-Featured Front Panel Access Keypad	• Allows the subscriber to access most functions using the keypad if the remote control is not available

Specifications, features, and product availability are subject to change without notice.