



Description

The Explorer® 8000™ Home Entertainment Server with Digital Video Recording (DVR) and Picture-in-Picture (PIP) functionality gives consumers more control, convenience, and choice in their TV viewing experience while giving cable service providers the capability to increase revenue streams, profitability, and reduce subscriber churn.

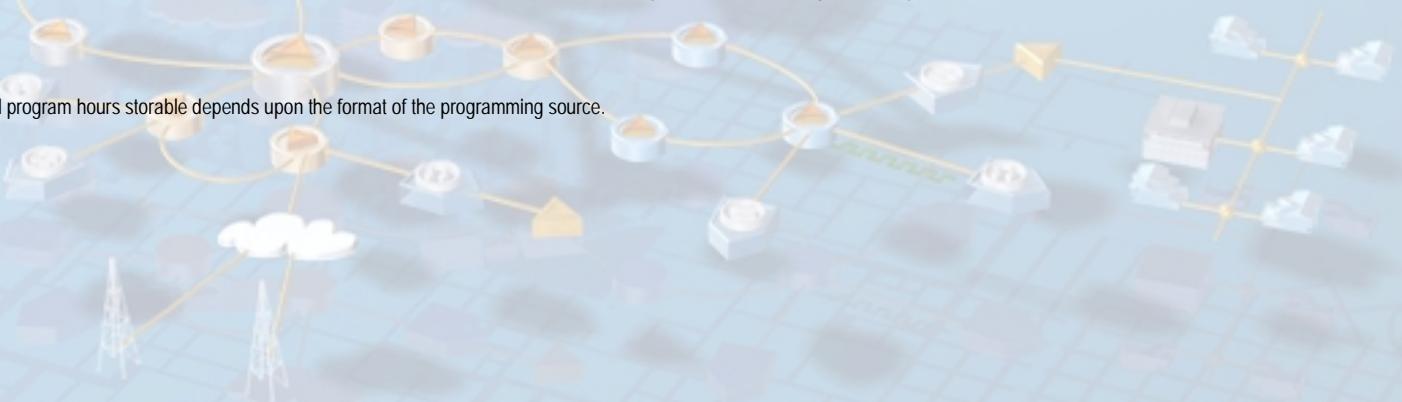
Consumer Features

- Control live TV — If the phone rings during your favorite live show, just press Pause on the AllTouch® 8400™ remote control. The show will stay paused for up to one hour. Press Play to resume the show whenever you are ready.
- Use Instant Replay whenever you want — If you missed the winning score, just press Instant Replay to see what you missed.
- Broaden your choices — Now you can record one program and change channels to watch another program at the same time. In fact, you can record two programs airing simultaneously. And while recording the two programs, you can select a third, pre-recorded program to watch at the same time.
- Pre-set the 8000 to record all episodes of a TV program for you — Simply select the program from the Interactive Program Guide (IPG) and select the Record All Episodes option.
- Create your own personalized video library of favorite TV shows — Store up to 50* hours of programs and play them back at any time.
- Display two programs on the screen simultaneously — Using the PIP remote control button, view two live programs, or one live and one recorded program simultaneously, regardless of the make or brand of your TV.

Cable Operator Benefits

- Build additional monthly revenue streams with new DVR, video-on-demand (VOD), and PIP services.
- Use VOD and DVR as complimentary services to offer more compelling content than satellite offerings.
- Reduce churn by providing more of the services that consumers really want.
- Derive greater profitability with the 8000 platform, which is scalable to support future applications development and continued growth.
- Reduce installation and service costs with the 8000's consumer-friendly, self-install, Plug and Play operation.

* The total program hours storable depends upon the format of the programming source.



Hardware Specifications

Features	Benefits
DVR with 80-GB Hard Drive	Allows up to 50* hours of video programs to be recorded and stored using DVR functions Gives subscribers complete control over watching, pausing, rewinding, replaying, and fast forwarding live programs using the remote control and 80-GB hard drive
DAVIC Reverse Path Data Transmitter	Allows IP-based, real-time, two-way communication between the Explorer 8000 Home Entertainment Server and the headend Supports interactive services such as <i>anything-on-demand</i> (xOD), VOD, and subscription VOD (SVOD)
MPEG-2 MP@ML Standard Definition Digital Video Decompression	Allows decompression and presentation of audio and video Delivers 640 x 480 video resolution
Dual Analog and Digital Service Tuners (True Picture-In-Picture)	Allows both analog and MPEG-2 digital channels to be tuned and displayed Allows two programs to be displayed simultaneously using the picture-in-picture function
Dual MPEG Encoder	Allows up to two different analog programs to be digitally encoded onto the hard disk drive simultaneously
AC-3® Digital Audio and MPEG-1 Audio Support	Supports leading digital audio standards
Dual Analog Encoders	Allows two analog SD programs to be recorded and displayed simultaneously
Composite Audio/Video Outputs	Connects to video and the left and right audio inputs of a TV (standard definition)
PowerKEY® Conditional Access System	Provides digital security using an RSA encryption algorithm that mathematically matches pairs of keys Encrypts all recordings on an internal 80-GB hard disk drive
PowerTV® Operating System with HTML Client Engine	Offers a more 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 IPG graphics while simultaneously scaling MPEG-2 video
Powerful 32-bit RISC Processors	Features two 164 MHz (328 MIPS total) processors to perform tasks and applications quickly
Over 48 MB Total Memory	Flash: 8 MB Applications DRAM: 16 MB Media DRAM: 8 MB MPEG encoding: 16 MB of DRAM NVM: 8 KB
64 and 256 ITU J.83 Annex B QAM Support	Supports open standards for QAM delivery and demodulation
Both Internal Security Microprocessor and Smart Card Slot	Provide hardware-assisted conditional access options with capability to upgrade the security, if ever needed
Macrovision® Copy Protection Support (licensing fee required to activate)	Activation allows cable operators to add another layer of copy protection software, called Macrovision, that restricts unauthorized subscribers from making analog copies of digital transmissions, such as VOD and SVOD
BTSC/SAP Decoder	Provides stereo sound on analog channels through the baseband left and right audio outputs
S/PDIF Digital Audio Output	Supports interconnection with surround sound receivers
Provision for Name Branding	Allows you to brand the Explorer 8000 Home Entertainment Server with your company name and logo

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Hardware Specifications – CONTINUED

Features	Benefits
Universal Serial Bus (USB) Ports (Optional back panel port will require optional software enhancement by downloading software when available)	Provides one standard, front panel USB port for easy-to-access connection with home consumer devices such as USB keyboards
	Provides one optional back panel USB port for connecting additional USB devices
Second Composite Audio/Video Outputs (will require software enhancement by downloading software when available)	Offers a second connection, labeled "OUT 2 (VCR)," for connection to a VCR
Composite Audio/Video Inputs (will require software enhancement by downloading software when available)	Supports interconnection to home consumer devices, such as VCRs, camcorders, or digital cameras for video pass-through to the TV
Optional Dual IEEE 1394 Digital Outputs with 5C Copy Protection (will require software enhancement by downloading software when available)	Provides optional dual IEEE 1394 outputs with 5C copy protection that provide a 400-Mbps interconnection each to home consumer devices such as digital televisions (see part number 736360 in Ordering Information)

Ordering Information

Product	Part Number
Explorer 8000 Home Entertainment Server	736360
DVR Software License (line item on Explorer 8000 Purchase Order)	752351
Explorer 8000 Home Entertainment Server without IEEE 1394 Ports	4004570
AllTouch 8400 Remote Control	745684 Rev B
Scientific-Atlanta Resident Application (SARA) DVR Software Installation CD	4000633



Specifications and product availability are subject to change without notice.

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