Subscriber Networks

Explorer® 2200 Digital Interactive Set-top

Description

With the release of the Explorer® 2200 Digital Interactive Set-top, Scientific-Atlanta offers a faster RISC(1) processor to optimize interactivity on the cable operator's digital network.

The Explorer 2200 Set-top features a 32-bit, 166 MHz processor and a reverse-path DAVIC transmitter capable of sending and receiving data at speeds up to 1.544 Mbps. With its fast response time, the Explorer 2200 Set-top provides subscribers with instant, real-time feedback to remote control "clicks" or requests for on-demand content.

Overall size of the Explorer 2200 Set-top is 30 percent smaller than its predecessor, resulting in reduced shipping and warehousing costs for the cable operator.

Total available memory is 16 MB, which provides support for video-on-demand (VOD), subscription VOD (SVOD), e-mail, chat services, Internet access, and other applications such as games.

The Explorer 2200 Set-top also complies with OpenCable, CableLabs/SCTE, and DAVIC standards to ensure broad-based applications support and scalability.

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(1) The Reduced Instruction Set Computer (RISC) processor takes advantage of simple instruction sets and uniform encoding to improve performance.

Features

Powerful 166 MHz, 32-bit RISC Processor	• Delivers fast system response time
16 MB Total Memory	• 8 MB CPU DRAM • 4 MB Graphics DRAM • 4 MB Flash EPROM
Reverse Path DAVIC Data Transmitter	• Allows instantaneous, IP-based, real-time two-way communication between the Explorer 2200 Set-top and the headend • Drives interactive services such as Internet browsing, VOD, SVOD, e-mail, and chat • Transmits and receives up to 1.544 Mbps
Universal Serial Bus (USB) Interface	• Offers quick and easy connectivity to digital peripherals such as Web printers and cameras
Small Footprint	• 30% reduction in overall size compared with predecessor, the Explorer 2100 DHCT

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Dolby® AC-3® and Musicam Digital Audio Support	• Provides capability to distribute content in these high-quality audio formats
PowerKEY® Conditional Access System	• Secures digital services using an RSA encryption algorithm that mathematically matches pairs of keys
PowerTV® Operating System with HTML Client Engine	• Offers extensive 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 graphics (640 x 480 pixels) while simultaneously scaling MPEG-2 video
64 and 256 ITU Annex B QAM Support	• Supports standards-based QAM delivery and demodulation
Analog and Digital Service Tuner	• Allows both non-scrambled analog and MPEG-2 digital channels to be tuned and displayed
Both Internal Security Microprocessor and Smart Card Slot	• Provides hardware-assisted conditional access options with capability to upgrade the security, if needed
Macrovision® Copy Protection Support (licensing not included)	• Activation allows cable operators to add another layer of copy protection software–Macrovision–that restricts unauthorized subscribers from copying digital transmissions such as VOD and SVOD
MPEG-2 MP@ML Digital Video Decompression	• Allows high-volume transport and decompression of audio and video • Powered by 4 MB of onboard dedicated DRAM to ensure fast decompression of MPEG and graphics • Provides video resolution up to 720 x 480 pixels
BTSC/SAP Decoder	• Enables stereo sound on analog channels using the baseband left and right audio outputs
S/PDIF Digital Audio Interface	• Supports Dolby Digital™ technology contained in interconnected audio receivers
Name Branding	• A section of the Explorer 2200 Set-top faceplate is reserved for prominent display of the cable operator's name and/or logotype

Ordering & Availability	
Standard Features: • Digital tuner, high-quality • Analog tuner, high-quality • 166 MIPS • 8 MB applications DRAM • Front panel USB port • Interactive navigation buttons - complete set on front panel	**Part Number:** • 745622 **Optional Features:** • Expanded memory **Available:** • Scheduled for release March 2002

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

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