Subscriber Networks



Explorer® 2100 Digital Home Communications Terminal



Description

The Scientific-Atlanta Explorer® 2100 Digital Home Communications Terminal (DHCT) provides support for digital services and traditional, non-scrambled analog services delivered through a hybrid fiber/coax (HFC) network. The Explorer DHCT features a 32-bit, 130 MHz RISC microprocessor; an Internet Protocol-based, real-time reverse path DAVIC transmitter; and an out-of-band control channel that can support interactive or session-based services.

The Explorer 2100 DHCT contains 16 MB of total memory that can support services such as video-on-demand, e-mail, or Internet access, as well as other future applications. The Explorer 2100 DHCT also supports both digital broadcast services and applications. Finally, the Explorer 2100 DHCT includes industry standards support (OpenCable, CableLabs/SCTE, DAVIC), which make these terminals ready for future applications and preserves its longevity.

Features

Reverse	Path	Data	Transmitter
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MPEG 2 MP@ML Digital Video Decompression

Dolby[®] AC3[®] and Musicam Digital Audio PowerKEY[®] Conditional Access System

PowerTV® Operating System with HTML Client Engine

- Allows instantaneous, IP-based, "real-time" two-way communication between the DHCT and the headend
- Enables MSO to offer two-way services such as Internet browsing, video-on-demand, and e-mail
- Transmits at up to 1.544 Mbps
- Allows transport and compression of audio and video
- 4 MB of DRAM dedicated to MPEG decompression and graphics
- Video resolution up to 720 x 480 pixels
- Supports these digital audio standards
- Secures digital services using an encryption algorithm, from RSA, that mathematically matches pairs of keys
- Provides Application Programming Interfaces (APIs) that enable client applications to utilize the resources managed by the operating system for delivering broadcast and interactive services
- Upgradeable using a network download

Explorer 2100 Digital Home Communications Terminal

Features, continued

Enhanced Graphics Engine	 Displays up to 65,000 colors simultaneously Enables high-resolution graphics (640 x 480 pixels) while simultaneously scaling MPEG 2 video 	
Powerful 32-bit RISC Processor	 Includes 130 MHz clock speed to perform tasks and applications quickly 	
64 and 256 ITU Annex B QAM Support	 Support of open standard for QAM delivery and demodulation 	
16 MB Total Memory	Includes 8 MB CPU DRAMIncludes 4 MB Graphics DRAMIncludes 4 MB Flash EPROM	
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 Smartcard Slot	 Provides an internal method for conditional access as well as an external ability to upgrade the security, if required 	
Macrovision Copy Protection	 Can support the capability for the MSO to restrict unauthorized subscribers from copying digital services such as pay-per-view and video-on-demand 	
Universal Serial Bus (USB) Interface	 Supports interconnection with home consumer devices such as printers Provides USB interface on the front panel 	
BTSC/SAP Decoder	 Provides stereo sound on analog channels using the baseband left and right audio outputs 	
S/PDIF Digital Audio Interface	 Supports interconnection with Dolby Digital™ Receivers 	
Recessed Cavity for Custom Logo	Allows cable operators to brand the DHCT	

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



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Scientific-Atlanta, Inc. 1-800-722-2009 or 770-903-6900 www.scientificatlanta.com