

Explorer® 4000DVB Home Gateway Set-Top

Description

The Explorer® 4000DVB home gateway set-top offers cable operators the triple play of video, data, and voice services through a single device using Hybrid Fiber/Coax networks.

Interactive features and components of the Explorer 4000DVB are based on the award winning Explorer 2000/3000 series of cable set-tops, of which over ten million have been shipped through April 2002.

The Explorer 4000DVB set-top began shipping to worldwide customers in March 2002 featuring support for standards such as DVB-C, PAL, DOCSIS/Euro-DOCSIS and DVB-RC/DAVIC. It also supports a choice of conditional access and middleware systems for maximum flexibility.

With its combination of powerful internal processing capability, added memory, and stable operating system, the Explorer 4000DVB set-top delivers digital broadcast video and supports real-time, two-way interactive applications—such as electronic program guides (EPGs), enhanced TV, e-mail, Internet browsing, chat, t-commerce, games, video-on-demand (VOD) and subscription VOD (SVOD)—to the television. The Explorer 4000DVB integrated cable modem provides high-speed Internet access to a PC and, when combined with an external multimedia terminal adapter, provides simultaneous voice-over-IP (VoIP) service to the telephone or fax machine.



Features

Powerful RISC Processor

Custom Designed Application Specific Integrated Circuits (ASICs)

Enhanced Graphics Engine

28 MB Total Memory

Internal DOCSIS/Euro-DOCSIS Cable Modem

Dual 64/256 QAM Tuners

Digital Audio

UHF RF Output

- Supports fast applications and quick interactivity
- Uses highly integrated chipsets which reduces parts and increases reliability
- Uses dedicated network and I/O processing engines which save CPU cycles and speed up applications
- Displays up to 65,000 colours simultaneously
- Enables high-resolution graphics up to 720 x 576 pixels while simultaneously scaling MPEG-2 video
- 16 MB applications DRAM for storage of multiple dynamically loaded applications
- 8 MB flash memory for storage of the operating system, middleware, and resident applications
- 4 MB dedicated graphics memory for reduced contention of memory resources and better overall applications performance
- Enables two-way interactive TV services like e-mail, Internet browsing, and VOD/SVOD
- Provides cable modem functionality to external devices such as PCs
- Tunes and displays MPEG-2 digital channels while simultaneously receiving high-speed data
- Supports MPEG-1 Layer 1 and Layer 2 audio
- Supports MPEG-2 Layer 2 audio
- Provides a configurable output from 470 MHz to 855 MHz (UHF channels 21 to 69)

Dual SCART with Baseband Audio L/R Outputs	<ul style="list-style-type: none"> Allows connections to TVs and VCRs
Ethernet and USB Ports	<ul style="list-style-type: none"> Allows easy interconnection with consumer devices like PCs, digital cameras, and printers
Dual Smart Card Readers	<ul style="list-style-type: none"> Supports renewable conditional access smart cards Allows second reader for t-commerce applications
Conditional Access (CA)	<ul style="list-style-type: none"> Supports DVB common scrambling algorithm Supports choice of renewable CA systems Already certified for Nagravision and PowerKEY® CA systems
Middleware Applications Software	<ul style="list-style-type: none"> Supports integration among a variety of middleware Already integrated with Liberate 1.2.7 and PowerTV® systems
PowerTV® Operating System	<ul style="list-style-type: none"> Provides proven multimedia operating system with open Application Programmer Interface (API) Supports native applications and third-party middleware applications Capable of running multiple applications simultaneously
Macrovision® Copy Protection	<ul style="list-style-type: none"> Can support the capability to restrict unauthorised copying of content using A/V outputs
Optional Internal DVB-RC/DAVIC Cable Modem	<ul style="list-style-type: none"> Substitutes lower cost DVB-RC/DAVIC modem for DOCSIS/Euro-DOCSIS modem Provides up to 1.5 Mbps communications to support two-way interactive TV services
Optional Memory Configuration	<ul style="list-style-type: none"> Upgrade applications DRAM to 32 or 64 MB Upgrade flash memory to 16 MB
Optional Electrical S/PDIF Output	<ul style="list-style-type: none"> Provides IEC60958/IEC61937 digital audio and surround sound output
Optional Terrestrial Aerial Combiner	<ul style="list-style-type: none"> Enables combination of terrestrial aerial signals and digital cable channels on a single feed to the TV
Optional Interactive TV Applications	<ul style="list-style-type: none"> Wide variety of applications available for EPG, Service Portal, e-mail, web browsing, chat, VOD/SVOD, help screen/tutorial, and games
Optional PowerTV HTML Client Engine	<ul style="list-style-type: none"> Supports industry standards such as HTML, HTTP, JavaScript as well as full meta-tag support Provides support for a wide range of Multipurpose Internet Mail Extension (MIME) data types Supports SSL 2.0 and 3.0, both at 128-bit encryption
Optional Accessories	<ul style="list-style-type: none"> External RF Bypass Module enables analog RF signals to be passed through to the VCR or TV Wireless keyboards and remote controls are supported using industry-standard IR protocols IR Blaster Cable for simplified VCR programming



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