

Subscriber Networks

Explorer® 940™ Compact Digital-Only Interactive Set-Top

Description

The Explorer® 940™ Compact Digital-Only Interactive Set-Top provides subscribers with improved video and audio quality associated with digital services. The 940 supports interactive applications and services, such as VOD, SVOD, and xOD. The new compact chassis design of the 940 makes it Scientific Atlanta's smallest digital-only set-top yet. Subscribers can place the set-top horizontally or vertically. With the optional IR extender, the 940 can be placed out of sight.



The Explorer 940 Set-Top supports the applicable NTSC Standard and complies with CableLabs®, SCTE, and DAVIC standards to enable broad-based applications support and scalability.

Features

- 16 MB of total onboard memory (expandable to 52 MB)
 - 8 MB applications memory (expandable to 32 MB)
 - 4 MB media processor memory
 - 4 MB flash memory (expandable to 16 MB)
- VOD, sVOD, xOD, and other applications support
- Digital service tuner
- DAVIC receiver and reverse path transmitter
- IR extender port
- Compact footprint
- Optional S-video output
- Optional coax SPDIF digital audio output
- External DC power supply

Benefits

System operators will receive the following benefits from deploying digital-only set-tops:

- Increased available bandwidth for digital services
- Potentially reduced operating costs
- Greater penetration of interactive applications and other digital services for sites that choose not to simulcast any analog channels (in this configuration, subscribers with analog TVs will need a digital-only set-top to receive cable service)

Subscribers may notice the following benefits from using digital-only set-tops:

- Better picture quality
- Access to interactive applications and other digital services that had previously been unavailable for subscribers with cable-ready TVs

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Back Panel Connectors



Notes:

- Connector labels on this back panel illustration are shown in white for clarity. Labels on the set-top are black.
- Digital Audio Out and S-Video Out connectors are optional.

Specifications

Audio/Video Outputs

- RF output connection to a TV/VCR
- Baseband video/audio connections to a TV/VCR
- S-Video output (optional)
- Coax SPDIF — digital audio output (optional)
- Supports both PCM and compressed Dolby® Digital Audio

Video Compression

- MPEG-2 MP@ML Digital Video Decompression — allows high-volume transport and decompression of audio and video
- 4 MB of dedicated DRAM — ensures fast decompression of MPEG and graphics and delivers video resolutions up to 720 x 480 pixels

Memory Configurations Available

Explorer 940 offers several memory configuration options ranging from 16MB to 52MB of total system memory. Available configurations include:

- 4MB Flash + 8MB CPU SDRAM + 4MB SDRAM Media = 16MB Total Memory
- 4MB Flash + 32MB CPU SDRAM + 4MB SDRAM Media = 40MB Total Memory
- 16MB Flash + 32MB CPU SDRAM + 4MB SDRAM Media = 52MB Total Memory

Processor

Powerful 166 MHz RISC processor delivers fast system response time

Security

Macrovision® copy protection support (licensing not included) — Activation allows system operators to use Macrovision copy protection software that prevents subscribers from making clear analog copies of video services

Data Transmission and Tuner

- 1.544 Mbps Forward Path DAVIC Data Receiver and Reverse Path DAVIC Data Transmitter:
 - Allows instantaneous, real-time two-way communications between the Explorer 940 Set-Top and the headend
 - Drives interactive services such as VOD, sVOD, and xOD
- 64 and 256 ITU Annex B QAM demodulator supports standards-based QAM delivery and demodulation
- Digital-only MPEG-2 tuner

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Conditional Access/Operating System

- PowerKEY® Conditional Access System — Secures digital services using symmetric encryption algorithm for content protection and strong authentication and digital signature for entitlement delivery
- PowerTV® Operating System — Offers extensive operating system and open Application Programming Interfaces (APIs) to support native applications and third-party middleware applications

Enhanced Graphics Engine

- Displays up to 65,000 colors simultaneously
- Enables high-resolution (720 x 480 pixels) display while simultaneously scaling MPEG-2 and video

Accessories

Optional IR extender allows the set-top to be placed out of line-of-sight

Power Supply

External, DC power supply

Dimensions

Product Dimensions (WxHxD)	7.8 in. x 1.7 in. x 6.40 in. (20.04 cm x 4.3 cm x 16.3 cm)
Product Weight (Set-Top only not including power supply)	14 oz (397 gm)
Carton Dimensions (WxHxD)	12 in. x 11.25 in x 8 in. (30.48 cm x 28.575 cm x 20.32 cm)
Weight Including Package (five units per carton)	7.75 lb (3.5 kg)

Temperature Range and Placement

Room Temperature (Operating)	40°F to 104°F (5°C to 40°C) Locate the Explorer 940 Set-Top with at least 2 in. of open space above and on each side. Do not cover the vents
Storage Temperature	14°F to 158°F (-10°C to +70°C)

Explorer® 940™ Compact Digital-Only Interactive Set-Top

Ordering Information

Contact your Sales Representative for product availability in your area.

Description	Product Photo	Part Number
Explorer 940 Compact Digital-Only Interactive Set-Top		S-Video and Coax SPDIF connections are optional. Part numbers: 4013757 Explorer 940 without S-Video or SPDIF (4/8 memory configuration) 4014406 Explorer 940 with S-Video and SPDIF (4/32 memory configuration) 4014749 Explorer 940 with S-Video and without SPDIF (4/32 memory configuration) 4014410 Explorer 940 with S-Video and SPDIF (16/32 memory configuration)
Optional IR Extender Cable (For use with the 940 Only)		4016254



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