

Subscriber Networks

Explorer® 4250C™ and 4250HDC™ Digital Interactive Set-Top with Multi-Stream CableCARD™ Interface

Description

Scientific Atlanta's Explorer® 4250C™ Digital Interactive Set-Top provides *standard-definition* (SD) video capability and broadband digital video services with a Multi-Stream CableCARD™ (M-Card™) interface.

Additionally, the Scientific Atlanta Explorer® 4250HDC™ digital Interactive Set-Top with an M-Card interface adds *high-definition* (HD) video tuning and connection features.

The 4250C and the 4250HDC are the first Scientific Atlanta separable security non-DVR set-tops with support for the M-Card module. It is expected that the FCC will require cable service providers in the United States to deploy set-tops with separable security by July 2007.



Features

Separable Security

- *M-Card Interface* uses a Multi-Stream CableCARD module to provide separable security in set-tops

OpenCable Network Support

- *Axiom™ Middleware* supports OCAP™ applications such as service navigators, games, and many other future applications (optional software)
- *DSG (DOCSIS® Set-top Gateway)* provides a powerful transport mechanism for command and control signaling between the set-top and service provider network (optional software)

Conventional Scientific Atlanta Network Support

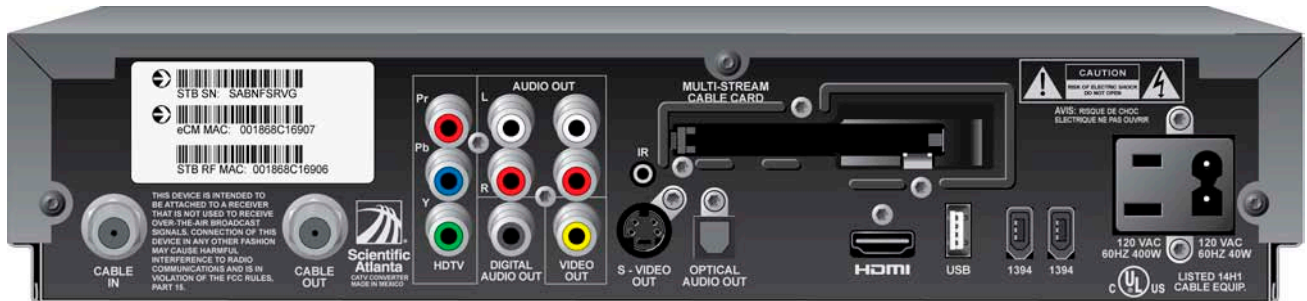
- *Scientific Atlanta Resident Application (SARA) Software* on a separable security set-top supports native navigator and user interface in a non-OCAP service provider network environment (optional software)
- *DAVIC Receiver/Transmitter* allows IP-based, real-time, two-way communication between the set-top and the service provider's network for services such as video-on-demand

Standard Features

- 2 x 250 MIPS with Dual CPUs to provide the processing power for feature-rich applications
- Flexible Memory Options to support either native application or OCAP applications

Explorer 4250C and 4250HDC Digital Interactive Set-Top with Multi-Stream CableCARD Interface

Back Panel



T12934

Note: Image is of the 4250HDC back panel. Image may vary from actual product and specification.

Specifications

Front Panel	
Connections	USB 1.1 Host
Controls	IR Receiver, 10 buttons: Power, Vol+, Vol-, Ch+, Ch-, Select, Guide, Info, Exit, Settings
Indicators	Power, Message
Branding	Scientific Atlanta logo, Model Number, Provision for Service Provider Branding

Back Panel - Standard	
Connections—In	Cable In
Connections—Out	Cable Out, L/R Audio, Baseband Video, Coax Digital Audio, IR, and S-Video
Network	USB 1.1 Host
Separable Security	Multi-Stream CableCARD (M-Card) interface
Power Input	Polarized 2-prong modular cord plug, 115 VAC, 60 Hz, 40 W maximum
Power Output	Polarized 2-prong outlet, at input line voltage, 400 W maximum, software controlled
Labels	Serial Number and RF MAC Address with bar code
Back Panel—Additional on 4250HDC	
Connections—Out	YPbPr, Secondary L/R Audio, Optical Digital Audio, HDMI™, and Dual IEEE-1394 6-Pin

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Tuning and Decoding - Standard	
Tuning	Audiovisual program reception on analog, QAM 64 and QAM 256 using 54 MHz to 860 MHz
Video Decoders	MPEG-2 MP@ML (SD, 720 x 480i), Video Scaling
Audio Decoders	Dolby® Digital up to 5.1, MPEG, BTSC/SAP
Conditional Access	Separable security through the M-Card interface
Graphics Engine	65,000 colors, 640x480 resolution, simultaneous scale MPEG-2 video
DAVIC	FDC (Forward Data Channel) 1.54 Mbs QPSK, RDC (Reverse Data Channel) 1.54 Mbs QPSK, FAT QAM Channel Downstream
DOCSIS	FDC DOCSIS 1.0, RDC DOCSIS 1.0, Baseline Privacy Interface (requires optional software)
Additional for 4250HDC	
Video Decoders	MPEG-2 MP@HL (HD, 1920 x 1080i, 1280 x 720p, 720 x 480p, and 720 x 480i)

Memory /Storage	Optional OCAP Configuration	SARA Configuration
CPU/Apps RAM	128 MB	32 MB
CPU Flash	32 MB	8 MB
Video Graphics	32 MB	32 MB
CPU NVM	16 kB	16 kB

Processors	
Application/CPU	Two 250 MHz 32-bit RISC Processors (500 MIPs total)

Dimensions	
Product (WxDxH)	12 in. x 8.75 in. x 2.75 in. (30.5 cm x 22.2 cm x 7 cm)
Product Weight	4.5 lbs (2.04 kg)
Carton (WxDxH)	18.5 in. x 14 in. x 6 in. (47 cm x 36 cm x 15.2 cm)
Total Weight	7.5 lbs in carton (3.4 kg)

Temperature Range and Placement	
Room Temperature (Operating)	32°F to 105°F (0°C to 40°C) during operation
Storage Temperature	14°F to 158°F (-10°C to +70°C)
Placement	Locate the 4250C and 4250HDC with at least 2 inches of open space above and on each side. Do not cover the vents.

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Accessories

Standard		
Shipped In Carton	Power Cord, Connection Guide	
Additional Included for 4250HDC		
Shipped In Carton	YPbPr Component Video and L/R Audio Cable	
Optional	Part Number	
Sold Separately	Axiom Middleware License	4014594
	Multi-Stream CableCARD PMK802	4014733
	SARA Software License	752351
	AllTouch® AT8550 Remote Control	4006369
	IR Extender—12 ft	1001807
	IR Extender—25 ft	4006725
	HDMI to HDMI Cable (4250HDC Only)	1002048
	HDMI to DVI Cable (4250HDC Only)	1002056
	YPbPr & L-R Cable Set—additional or replacement (4250HDC Only)	1000944
	RGB adapter and cables (4250HDC Only)	749790

Ordering Information

Contact your Sales Representative for product availability in your area.

Model	Description	Set-Top w/out CableCARD	Set-Top/ CableCARD Combo
4250HDC SARA Configuration	Explorer 4250HDC High-Definition Digital Interactive Set-Top with 8 MB of Flash and 32 MB Application Memory, HDMI, Dual IEEE-1394 Ports, and M-Card Interface	4015317	4016584
4250HDC OCAP Configuration	Explorer 4250HDC High-Definition Digital Interactive Set-Top with 32 MB of Flash and 128 MB Application Memory, HDMI, Dual IEEE-1394 Ports, and M-Card Interface	4015779	4016585
4250C SARA Configuration	Explorer 4250C Digital Interactive Set-Top with 8 MB of Flash and 32 MB Application Memory, and M-Card Interface	4015320	4016582
4250C OCAP Configuration	Explorer 4250C Digital Interactive Set-Top with 32 MB of Flash and 128 MB Application Memory, and M-Card Interface	4015782	4016583

Explorer 4250C and 4250HDC Digital Interactive Set-Top with Multi-Stream CableCARD Interface



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