MODEL DCT5100 SPECIFICATIONS

> Stondard Factures

- MPEG-2 digital video processor
- \bullet Integrated High Definition (HD) decoder with $\mathrm{YP}_B\mathrm{P}_R$ component output
- ATSC standard Dolby® (AC-3) audio processor
- TTU standard 64/256 QAM/FEC/enhanced adaptive equalizer
- DOCSIS 1.0/1.1-capable integrated cable modem
- Two 54 860 MHz tuners
- Frequency agile 2.048 Mbps out-of-band data receiver
- 300+ MIPS, RISC-based microprocessor
- 32-bit, 2-D/3-D graphics
- Analog/digital video scaling (Picture in Graphics)
- 16 MB Flash, 64 MB DRAM standard unified memory
- Clear analog channel processor with BTSC decoder
- DES-based encryption/DCII access control
- PCM, AC-3. Dolby 5.1 Prologic Digital audio capability
- 1DE hard-drive controller interface
- Digital diagnostics
- · Macrovision copy protection
- · Full-feature access from front panel
- · Switched accessory oudet

Standard Interfaces

- RF and baseband output (video, L/R audio) ports
- Three USB connectors (one on front panel)
- 10/100Base-T Ethernet port (RJ-45 connector)
- Smart Card interface connector (e-commerce)
- YPRPR component output
- Front and rear panel L/R audio and video inputs
- S-video output
- Optical and electrical SPDIF/Dolby Digital connectors
- TVPASS renewable security connector
- 1R Blaster port
- · Audio loop through connectivity
- 4 digit, 7 segment LED display with IR receiver for remote and/or keyboard

Optional Features

- 1394 Firewire digital interface (dual connector interface)
- DVI connector
- Expansion DRAM (up to 128 MB)
- Expansion FLASH (up to 32 MB)
- HPNA interface
- RF Bypass or A/B switch

Accessories

- Universal remote (DRC400)
- Keyboard



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Specifications subject to change. 5420-402-2K

Motorola, Inc. Broadband Communications Sector 101 Tournament Drive Horsham, PA 19044 1.800.523.6678 www.motorola.com/broadband

DCT6200 SERIES

Advanced High-Definition Set-tops



The new Motorola DCT6200 series allows cable operators to deliver a powerful combination of interactive and entertainment services, such as personal video recording (PVR), high-definition television (HDTV), and other processing intensive applications.

As the next generation of Motorola's popular DCT5100 platform, the DCT6200 was enhanced with an 800 MIPS internal processor - an upgrade of over 150 percent. Additionally, the Motorola DCT6200 includes an "Entertainment Package" that enables a direct digital connection to consumer audio and video devices through 1394-DTV and DVI interfaces.

The DCT6200's expanded memory footprint, high-performance processor, and 3-D graphics are designed to run advanced, interactive applications including games, home connectivity, streaming media, t-commerce, and middleware. To support future IP and video-based interactivity, the DCT6200 series includes an integrated, high-speed DDCSIS cable modern.

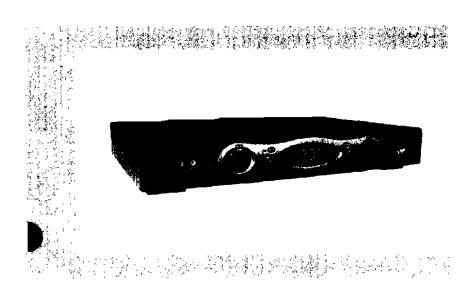
In addition to the more advanced features, the DCT6200 offers a range of standard digital and analog interfaces

The DCT6200 series combines high-definition television with powerful interactive and entertainment services.

that facilitate consumer interaction in multiple DTV and IP interface configurations it also includes an MPEG encoder, making the set-top PVR-capable with the addition of an external 1394 hard disk drive. These enhancements provide an even more compelling, easy-to-use, HDTV and PVR experience for the cable customer.

DCT6208

The Motorola DCT6208 offers time-conscious customers on-demand viewing control combined with HDTV support. Motorola's DCT6208 comes fully equipped with an integrated 80 GB hard-drive for hours of PVR functionality including the ability to record high-definition programs. In addition to the built-in hard drive storage capacity, it features a 1394 Firewire digital interface to enable external hard-drive expansion for increased storage or connection to future networked video devices.



DESCRIPTION

- Advanced digital set-top terminal that supports HDTV and Dolby 5.1 services
- . Digital decode of HD video / audio content
- Robust CPU (800 MiPS), memory footprint, and 3D graphics to run electronic program guide (EPG), video-on-demand (VOD), advanced applications, and middleware
- . Built in DOCSIS modern for high speed interactivity
- Full range of interfaces including YP_BP_R, DVI, 1394, USB, Ethernet, SPDIF, and Smartcard.
- Internal 80 GB hard drive with DCT6208

FEATURES

Standard Features

- MPEG-2 digital video processor
- Integrated high-definition decoder with YPBPR component output
- DVI and dual 1394 (DTV) digital connectors
- · Built-in MPEG analog encoder
- PCM, AC-3, Dolby 5.1 Prologic Digital audio capability
- ITU standard 64/256 QAM/FEC/enhanced adaptive equalizer
- DDCSIS 1.0 / 1.1 capable integrated cable modem
- Two 54-860 MHz turiers
- Frequency agile 2 048 Mbps out-of-band data receiver
- 800 MIPS, RISC-based microprocessor
- 32 bit, 2-D / 3-D graphics
- · Analog/digital video scaling (Picture in Graphics)
- 16 MB Flash, 64 MB DRAM standard unified memory
- Clear analog channel processor with BTSC decoder
- DES-based encryption/DCII access control
- · Digital diagnostics
- · Macrovision copy protection
- Full feature access from front panel

Optional Features

- A/B switch
- RF Bypass
- · Expansion DRAM (up to 128 MB via field upgrade)
- · Expansion FLASH (up to 32 MB, factory installed)
- Universal remote (DRC450)

Standard Interfaces

- YP_BP_B component output
- . DVI and 1394 (DTV) digital interfaces
- Optical and electrical SPDIF / Dolby Digital connectors
- · S-Video output
- RF and baseband output (Video, L/R Audio) ports
- Front and rear panel L/R audio and video inputs
- . Three US8 connectors (one on front panel)
- 10/100 Base-T Ethernet port (RJ45 Connector)
- Smartcard interface connector (e-commerce)
- TVPASS™ renewable security connector
- IR blaster port
- 4 digit, 7 segment LED display with IR receiver for remote or/and keyboard
- · Switched Accessory Outlet

General Specifications

Dimensions Weight 17 13 W x 12.75 H x 2.75 D 9.5 lbs. (6200)

11 lbs. (6208)

Specifications are subject to change without notice

MG8

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DCT6400 Series Dual Tuner DVR High-Definition Set-tops



The Motorola BCT6400 Series set-top combines the extraordinary features of digital cable – the seemingly endlass programming options, interactive program guides (IPG), Video on Demand (VOD), and commercial-free, CD quality music – with dual tuner digital video recording (DVR) and the incredible picture quality and sound of your high-definition television (HDTV). The DCT6400 Series set-top offers advanced capabilities including a high-end microprocessor, expanded memory, enhanced graphics, and a full range of audio/visual inputs/outputs.

The DCT6400 Series set-top includes a direct digital connection to consumer audio and video devices through IEEE 1394-DTV and DVI interfaces. The DCT6412 set-top is fully equipped with an integrated 120 GB hard drive for hours of DVR functionality, including the ability to:

- Record hours of standard digital TV and high-definition TV content
- Maintain a personal library of recorded programming, accessed using the interactive program guide (IPG)

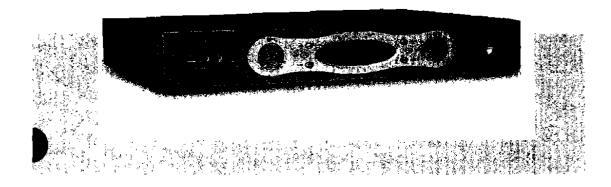
Simulteneously:

- Watch two programs and easily switch between them using the remote control
- · Record one program while viewing another program
- · Record two programs at the same time
- Watch a program recorded on your DCT6400 set-top white recording two other programs at the same time

The DCT6400 Series dual tuner combines your high-definition television with powerful interactive and entertainment services.

The DCT6400 Series set top:

- Initiates, authorizes, and facilitates the purchase of on demand programming services
- Decodes high-definition video
- Dutputs HDTV in multiple video modes
- · Enables high-quality video and surround-sound audio
- Supports multi-size, factory-installed hard disk drives (HDD)
- Provides dual tuner DVR functionality to pause and time shift live video
- Includes a built in DOCSIS cable modern for IP services
- Digital outputs: IEEE 1394 / DVI



DESCRIPTION

- Advanced digital set-top that supports HDTV, Dolby 5.1, and DVR services
- . Dual video tuners for watch-and-record DVR services
- . Digital decode of HD video / audio content
- Robust CPU, memory footprint, and 30 graphics to run IPG, VOD, advanced applications, and middleware
- · Built in DOCSIS modern for high speed interactivity
- Full range of interfaces including YP_BP_B, BVI, 1394, USB, Ethernet, SPDIF, and SmartCard

FEATURES

Standard Features

- · MPEG-2 digital video processor
- Integrated high-definition decoder with YPBPR component output
- Built-in dual MPEG analog encoder
- PCM, AC-3, Dolby 5.1 Prologic Digital audio capability
- ITU standard 64/256 QAM/FEC/enhanced adaptive equalizer
- DOCSIS 1.0 / 1.1 capable integrated cable modem
- . Three 54-860 MHz tuners (two video, one data)
- . Frequency agile 2.048 Mbps out-of-band data receiver
- 32 bit, 2-D / 3-D graphics
- . MIPS, RISC-based processor
- · Analog/digital video scaling (Picture in Graphics)
- 16 MB Flash, 128 MB DRAM standard unified memory
- · Clear analog channel processor with BTSC decoder
- DES-based encryption/DCII access control
- · Digital diagnostics
- Macrovision[®] copy protection
- · Full feature access from front panel

Standard Interfaces

- DVI and 1394 (DTV) digital interfaces
- Optical and electrical SPDIF / Dolby Oigital connectors
- S-Video output
- RF and baseband output (Video, L/R Audio) ports
- Front and rear panel L/R audio and video inputs
- Two USB connectors (one on front panel)
- 1D/100 Base-T Ethernet port (RJ45 Connector)
- Smartcard interface connector (e-commerce)
- TVPASS™ renewable security connector
- · If blaster port
- 4 digit, 7 segment LED display with IR receiver for remote or/and keyboard
- . Switched Accessory Outlet

General Specifications

Dimensions 17.13 W x 12.75 H x 2.75 D Weight 11.5 lbs

Accessories

DRC800 universal remote control (sold separately)

Specifications are subject to change without notice

MGBI

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DCX700 All-Digital HD Set-top

MPEG-4 Capable, MR-DVR Capable, Wall-Mountable

As competition in the video service industry continues to increase, cable operators require advanced technologies for delivering a superior digital viewing experience and exciting new applications. Motorola has developed a sophisticated all-digital solution with the DCX series, the next generation of Host set-tops. The DCX set-tops are loaded with features for improving bandwidth efficiency and providing high-definition video with surround sound audio, while bringing on-demand and interactive services to a connected home environment.

The Motorola DCX700 is a cost-effective, High-Definition (HD) set-top with a single 1 GHz tuner that supports both MPEG-2 and MPEG-4 AVC services. The all-digital DCX700 includes the latest audio and video output interfaces, including HDMI^M and DoIby® Digital Plus. When configured with the optional MoCA® hometworking interface, the DCX700-M can serve as a multimedia client for accessing content from other compatible devices in the home.

With the optional MoCA® Home Networking component, the DCX700-M provides the flexibility to not only watch your favorite programs on your schedule, but also choose the room in your home where you would like to view your programs. The DCX700-M serves as a multimedia client that can access and playback recorded programs from a separate MoCA®-enabled DVR set-top within the home over the existing coaxial cabling

Faatures

Embedded MediaCipher™ Conditional Access or MedieCipher™ Cable Card support [pre-installed at factory]

Compatible with Motorols DCT / DCH legacy software API set

Single 1GHz digital video tuner (QAM 64/256)

High-definition (HDTV) decode of MPEG-2, MPEG-4 AVC (H.284), VC-1

Audio decode of Doby® Digital, Doby® Digital Plus, AAC-LC / HE-AAC, WMA9, MP3

Optional MoCA® homenatworking interface

SCTE 56-1 / SCTE 55-2 Outof-band)

Video scaling (Picture-in-Graphics)

Accelerated 2-D and 3-D graphics

64 MB Flash (stendard), 156 MB DRAM total (standard)

IR Remote Sensor US remote tether sold separately?

Remote and On acreen disgnostics

Switched Digital Video capable

Macrovision^a, HDCR DTCR and CGMS-A content protection schemes on the respective interfaces

Front Panel LEO displays for Power, Data, and Record (MoCA® only)

Small footprint, elegant well mounted profile

Serial port and External (R input are combined one 3.5 mm

SPECIFICATION SHEET



Rear Panel	
F-connector for Cable input	
HOMI" output	
YPbPr camponent output	
Baseband composite video output	
L/R audio output - fixed line level	
Optical S/PDIF digital audio outputs	
USB 2.0 Host Type A port	
1394a interface	
3.5mm Serial port	
3.5mm External IR input	

MANUFACTURING OPTIONAL FE	Α	TURES
	-	

DCX700-M with MaCA® 1.1 home networking interface
Pre-matalled M-Card or embedded MediaCipher™ Conditional
Access

or imput riequency.	24 to 1005 MILE (MITRO RUO BOOTO)
Memory:	64MB Flash 256 MB DRAM standard
	unified Lagacy Pletform Supported
Video;	Up to 32-bit color, accelerated 2-D and 3-D
	aupport, and scalable video-in-graphics
Processo("	MIPS, RISC-besed
Graphics Resolution.	SD Outputs - 4:3 up to 720x480
	HO Outputs - 16:9 up to 1920x1080
Video Resolution:	480i, 480p, 576i/p, 720p, 1080i and 1080p
	24/30 (HDMI" only)
	Supports NTSC / PALM / PALNo
Operating Temperature	10 °C to 42 °C (50 °F to 108 °F)
Operating Humidity	5 to 90% (non-condensing)
AC Voltage	105 to 125 VAC, 60 Hz
Power Dissipation	20W
OOB Modulation QPSK	Frequency Agile receiver 70 to 130 MHz
	Bandwidth 2.0 MHz meximum
	Level -15 to 15 dBmV
Digital Input Level	64 CAM, -15 to 15 d8mV
	256 QAM12 to 15 dBmV
Dimensions	10 in W x 5.6 in D x 1.6 in H
	(25.4 cm × 14.2 cm × 4.0 cm)
Weight	1.5 lbs (0.68 kg)

Certain features may sot be activated by your service provider and/or their network settings may (first the feature of inchonate), Additionally, certain features may require a subscription. Contact your service provider for details.

All features, functionality and other product specifications are subject to change without notice or obligation









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Features

M-Card™ (Multi-stream CableCARD) Host support for conditional access

OpenCable Application Platform (OCAPTM) capable

Compatible with Motoroia DCT/ DCH legacy software APi set

Single 1GHz digital video tuner (QAM 64/256)

High-definition (HDTV) decode of MPEG-2, MPEG-4 AVC (H.264), VC-1

Audio decode of Dolby® Digital, Dolby® Digital Plus, AAC-LC / HE-AAC, WMA9, MP3

Optional MoCATM homenatworking interface

Independent 1GHz DOCSIS tuper

DOCSIS 2.0+ embedded Cable Modern with support for DSG and down-stream channel bonding (2 down, 1 up)

SCTE 56-1 / SCTE 55-2 Out-of-band

Video scaling (Picture-in-Graphics)

Accelerated 2-D graphics

64 MB Flash (standard), 258 MB DRAM total (standard)

Front Panel LED displays for Power, Data, and Record (MoCATM only)

Remote and On screen diagnostics

Switched Digital Video Capable

Mecrovision^e, HDCR DTCR and CGMS-A content protection achienes on the respective interfaces

DCX3200

As competition in the video service industry continues to increase, cable operators require advanced technologies for delivering a superior digital viewing experience and exciting new applications. Motorola has developed a sophisticated all-digital solution with the DCX series, the next generation of Host set tops. The DCX set-tops are loaded with features for improving bandwidth efficiency, providing high-definition video with surround sound audio, and bringing on-demand and interactive services to a connected home environment.

The Motorola DCX3200 is a High-definition set-top with a single 1 GHz tuner that supports both MPEG-2 and MPEG-4 AVC services. The all-digital DCX3200 includes the latest audio and video output interfaces, including HDMI™ and Dolby® Digital Plus audio. When configured with the optional MoCA™ home networking interface, the DCX3200-M can serve as a multimedia client for accessing content from other compatible devices in the home. An embedded DOCSIS 2.0+ cable modem provides support for DSG and downstream channel bonding.

Bandwidth Efficiency Solutions

The DCX3200 fully supports the growing consumer demand for high-definition programming and high bandwidth advanced applications. The DCX3200 provides new methods of efficiently utilizing limited bandwidth for delivering these services. For example, the DCX3200 is capable of decoding MPEG-4 video streams, requiring significantly less bandwidth than MPEG-2 to deliver comparable quality video services. The 1GHz digital video tuner in the DCX3200 supports future plent expansion, enabling operators to increase the number of available channels. The DCX3200 also supports Switched Digital Video (SDV) solutions. allowing service providers to maximize the use of their available bandwidth by delivering programming only to nodes where and when subscribers actively request that programming

Home Networking

With the optional MoCA[™] Home Networking component, the DCX3200-M provides the flexibility to not only watch your favorite programs on your schedule, but also choose the room in your home where you would like to view your programs. The DCX3200-M serves as a multimedia crient that can access and playback recorded programs from a separate MoCA[™]-enabled DVR set-top within the home over the existing coaxial cabling.

Remote Diagnostic Capabilities

The DCX3200 supports Motorola's SmartStream
Terminal Data Collector (STDC) service for remotely
gathering important set top status and health
information in a centralized server for evaluation
and corrective action. STDC provides operators with
the ability to isolate and troubleshoot plant issues,
improve service quality, and reduce operation costs.

SPECIFICATION SHEET

DCX3200

Front Panel	
Power, Data, and Record indicators	
R remote control sensor	
USB 2.0 Hast Type A port	
Rear Panel	
F-connector for Cable input	
Pre-Installed M-Card	
HDMI" output	
YPIsPr component output	
Baseband composite video output	
RF Remod output (Ch. 3/4)	
S-video output	
L/R audio output – vaneble	
Coaxial and Optical S/PDIF digital audio output	ıts
USB 2.0 Host Type A port	
1394s interface	
10/100 Ethernet interface	
3.5mm senal port	
3.5mm External IR input	

RF Input Frequency:	54 to 1002 MHz (video and audio)
Memory:	64MB Flash: 256 MB DRAM
Video.	Up to 32-bit color, accelerated 2-D support,
	and scalable video-in-graphics
Processor	MIPS, RISC-based
Graphics Resolution	SD Outputs 4:3 up to 720x480
	HD Outputs 16:9 up to 1920x1090
Video Resolution:	490i, 480p, 720p, 1080i and 1080p 24/30
	(HDMi only)
Operating Temperature	15 °C to 40 °C (50 °F to 104 °F)
Operating Humidity	5 to 90% (non-condensing)
AC Voltage	105 to 125 VAC, 60 Hz
Power Dissipation	32W (depending on features)
OOB Modulation QPSK	Frequency Agile receiver 70 to 130 MHz
	8andwidth 2.0 MHz meximum
	Level -15 to 15 dBmV
Digital Input Level	64 QAM -15 to 15 dBmV
	256 QAM -12 to 15 dBmV
Dimensions	10.2 in W x 10.43 in D x 30 in H
	(25.9 cm x 26.5 cm x 7.6 cm)
Weight	5.00 Lbs (2.27 kg)

MANUFACTURING OPTIONAL FEATURES

DCX3200-M with MoCA** 1.1 home-networking interface

All feetures, functionality, and other product spacifications are subject to change without notice or obligation.





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Feeture

M-CardTM (Multi-streem CableCARD) Host support for conditional access

tru2way™ capable platform

Compatible with Motorola OC*/ OCH legacy software API set

Single 1GHz digital video tuner (CIAM 64/256)

High-definition (HDTV) decode of MPEG-2, MPEG-4 AVC (H.264), VC-1

Audio decade of Dotby* Digital, Dolby* Digital Plus, AAC LC / HE-AAC, WMA9, MP3

MR-DVR Capable (Optional McCA® Home Networking Interface)

Independent 1GHz DOCSIS

DOCSIS 2 0+ embedded Ceble Modern with support for DSG and downstream channel bonding (2 down, 1 up)

SCTE 55-1 / SCTE 55-2 Out-of-band

Video ecaling (Video-in-Graphics)

Accelerated 2-D and 3-D graphics

64 MB Flash (standard), 256 MB DRAM total (standard)

Front Panel Power/Standby button

Front Panel LEO displays for Power, Data, Horne LAN, Message, and Record (MoCATM only)

Clock/Display (4-character, 7-segment)

Remote and On-screen diagnostics

Switched Digital Video Capable

Macrovision⁶, HDCR, DTCR, and CGMS-A content protection schemes on the respective interfaces

DCX3200 P2

All-Digital •MPEG-4 •MR-DVR Capable

As competition in the video service industry continues to increase, cable operators require advanced technologies for delivering a superior digital viewing experience and exciting new applications. Motorola has developed a sophisticated all-digital solution with the DCX series, the next generation of Host set-tops. The DCX set-tops are loaded with features for improving bandwidth efficiency, providing high-definition video with surround sound audio, and bringing on-demand and interactive services to a connected home environment.

The Motorola DCX3200 P2 has a new enclosure design that significantly reduces the settop's dimensions compared to the Phase-1 model. In addition, the DCX3200 P2 provides a front panel clock and channel display, as well as a front panel Power/Standby button. It is a high-definition set-top with a single 1 GHz tuner that supports both MPEG-2 and MPEG-4 AVC services. The all-digital DCX3200 P2 includes the latest audio and video output interfaces, including HDMITM and Dolby® Digital Plus audio. When configured with the optional MoCA® home networking interface, the DCX3200-M provides the flexibility to serve as a multimedia client for accessing content from other compatible devices in the home. An embedded DOCSIS 2.0+ cable modern provides support for DSG and downstream channel bonding

Multi-Room DVR

With the optional MoCA Home Networking component, the DCX3200-M provides the flexibility to not only watch your favorite programs on your schedule, but also choose the room in your home where you would like to view your programs. The DCX3200-M serves as a multimedia client that can access and playback recorded programs from a separate MoCA-enabled DVR set-top within the home over the existing coaxial cabling.

Bandwidth Efficiency Solutions

The DCX3200 P2 fully supports growing consumer demand for high-definition programming and high bandwidth advanced applications. The DCX3200 P2 provides new methods of afficiently, and cost effectively, utilizing limited bandwidth for delivering these services through support of MPEG-4 decode technologies. For example,

the DCX3200 P2 is capable of decoding MPEG-4 video streams, requiring significantly less bandwidth than MPEG-2 to deliver comparable quality video services. It also supports Switched Digital Video (SDV) solutions, allowing service providers to maximize the use of their available bandwidth by delivering programming only to nodes where and when subscribers actively request that particular program.

Remote Diagnostic Capabilities

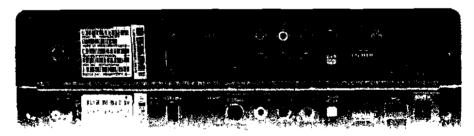
The DCX3200 P2 utilizes Motorola's SmartStream Terminal Data Collector (STDC) service for remotely gathering important set-top status and health information in a centralized server for evaluation and corrective action. STDC provides operators with the ability to isolate and troubleshoot plant issues, improve service quality, and reduce operation costs.

SPECIFICATION SHEET

DCX3200 P2

STANDARD INTERFACES	SPECIFICATIONS	
Front Panel		
Power/Standby button	RF Input Frequency:	54 to 1002 MHz (video and audio)
Power, Data, Home LAN, Message, and Record indicators	Memory.	64 MB Flash; 256 MB DRAM
Clodk/Display (4-character, 7 segment)	Video:	Up to 32-bit color, accelerated 2-D support
R remote control sensor (Motorola/XMP-1/XMP-2)		and scalable video-in-graphics
USB 2.0 Host Type A port	Graphics Resolution:	SD Outputs 4:3 up to 720x480
		HD Outputs 16:9 up to 1920×1080
Rear Panel	Video Resolution:	480i, 480p, 576i, 576p, 720p, 1080i, and
connector for Cable input		1080p 24/30 (HDMI only)
Pre-Installed M-Cerd**	Audio:	Oolby Digital, Dolby Digital Plus, HE-AAC,
HDMi™ output	-	WMA9, MP3 capable
YPbPr component output	Operating Temperature	15 °C to 40 °C (50 °F to 104 °F)
Baseband composite video output	Operating Humidity	5 to 90% (non-condensing)
S-Video output	AC Voltage	105 to 125 VAC, 60 Hz
L/R audio output - variable	Power Dissipation	15W Non-McCA (depending on features)
Coaxial and Optical S/PDIF digital audio outputs	-	18W MoCA (depending on features)
USB 2.0 HostType A port	OOB Modulation QPSK	: Frequency Agile receiver 70 to 130 MHz
1394a interface		Bandwidth 2.0 MHz meximum
10/100 Ethernet interface		Level -15 to 15 dBmV
3,5mm Serial port	Digital Input Level	54 QAM -15 to 15 dBmV
3.5mm External IR input		256 QAM -12 to 15 dBmV
	Dimensions	10.63 in W x 8 46 in D x 1 97 in H
MANUFACTURING OPTIONAL FEATURES		(270mm x 50mm x 215mm)
	Weight	5.00 Lhs. (2.27 kg)
Integrated MoCA™ Home Networking interface (DCX3200-M)		
64MB Flash, 512MB DRAM memory configuration	All leatures, functionality, at without notice or obligation	nd other product apecifications are subject to change











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Features

M-Card" (Multi-stream CableCARD) Host support for conditional access

OpenCable Application Platform (OCAP*) capable

Compatible with Motorola DCT/ DCH legacy software API set Dual Tuner Digital Video Recorder (DVR)

Standard 160GB Hard Drive (250GB option)

(250GB option)

home-networking interface Dual High-definition (HUTV) decode of MPEG-2, MPEG-4 AVC (H.264), VC-1

Duel Audio decode of Dolby* Digital, Dolby* Digital Plus, AAC-LC / KE-AAC, WMA9, MP3

Duel 1 GHz digital video tuners

1GHz DOCSIS tuner Picture-in-Picture

Accelerated 2-D and 3-D graphica

DOCSIS 2.0+ embedded Cable Modern with support for DSG and down-stream channel bonding (3 down, 1 up)

SCTE 55-1 / SCTE 55-2 Out-of-band (DOB) data venemitter/receiver

32 MB Flash (standard), 256MB DRAM total (standard)

Full featured front panel display and controls

Remote and on-screen diagnostics

Switched Digital Video (SDV) Capabie

Macrowsion®, HDCP, OTCP, and CGMS-A content protection schemes on the respective interfaces.

DCX3400

As competition in the video service industry continues to increase, cable operators require advanced technologies for delivering a superior digital viewing experience and exciting new applications. Motorola has developed a sophisticated all-digital solution with the DCX series, the next generation of Host set tops. The DCX set-tops are loaded with features for improving bandwidth efficiency, providing high-definition video with surround sound audio, and bringing on-demand and interactive services to a connected home environment.

The DCX3400 is a Digital Video Recorder (DVR) with dual 1GHz video tuners and support for both MPEG-2 and MPEG-4 high definition decode. The all-digital DCX3400 includes the latest audio and video output interfaces, including HDMI™ and Dolby® Digital Plus audio. The optional MoCA™ Home Networking component enables the DCX3400-M set top to serve as a media hub for in a connected home environment. An embedded DOCSIS 2.0+ cable modern provides support for DSG and downstream channel bonding.

Bandwidth Efficiency Solutions

The DCX3400 fully supports the growing consumer demand for high-definition programming and high bandwidth advanced applications. The DCX3400 provides new methods of efficiently utilizing limited bandwidth for delivering these services. For example, the DCX3400 is capable of decoding MPEG-4 video streams, requiring significantly less bandwidth than MPEG-2 to deliver comparable quality video services The dual * GHz digital video tuners in the DCX3400 support future plant expansion, enabling operators to increase the number of available channels. The DCX3400 also supports Switched Digital Video (SDV) solutions, allowing service providers to maximize the use of their available bandwidth by delivering programming only to nodes where and when subscribers actively request that programming.

Watch and Record Flexibility

Consumers value the watch-end-record flexibility that a dual tuner DVR set top provides. The DCX3400 further enhances this experience with a 250GB hard drive upgrade to provide ample capacity for recording an entire household's favorite shows. The optional integrated MoCA** Home Networking component enables the DCX3400-M set top to act as a media hub for sharing content on its hard drive with other non-DVR set tops in the home.

Remote Diagnostic Capabilities

The DCX3400 supports Motorola's SmartStream Terminal Data Collector (STDC) service for remotely gathering important set top status and health information in a centralized server for evaluation and corrective action. STDC provides operators with the ability to isolate and troubleshoot plant issues, improve service quality, and reduce operation costs.

SPECIFICATION SHEET

DCX3400

STANDARD INTERFACES
Front Panel
Power, Message, Date, and Home LAN indicators
Output video format indicator
4-character 7-segment display
2 Recording indicators
IR remote control sensor
USB 2.0 Host Type A port
4-way navigation, Select, Power, Menu. Guide, Info
Channel Up/Down and Format buttons
Rear Panel
F-connector for Cable input
Pre-installed M-Card**
HDMI™ output
YPbPr component output
Baseband composite video dutput
RF Remod output (Ch. 3/4)
S-video output
L/R audio output with volume control
L/R audio output - fixed ine level
Coaxial and Optical S/PDIF digital audio outputs
USB 2.0 Host Type A port
1394a interface
10/100 Ethernet inferlace
eSATA interface
Mini-phone 3.5mm serial port / External IR input

SPECIFICATIONS	
RF Input Frequency	54 to 1002 MHz
(video and audio)	
Memory;	32MB Flash; 256 MB DRAM
Video:	Up to 32-bit color, accelerated 2-D and 3-D
	support, and scalable video-in-graphics
Processor:	MIPS, RISC-based
Hard Disk Drive:	160GB; 250GB (optional)
Graphics Resolution:	5D Outputs 4:3 up to 720x480
	HD Outputs 16:9 up to 1920x1080
	Video Resolution 480i, 480p, 720p, 1080i
	and 1080p 24/30 (HDMI only)
Operating Temperature	15 °C to 42 °C (50 °F to 108 °F)
Operating Humidity	5 to 90% (non-condensing)
AC Voltage	105 to 125 VAC, 60 Hz
Power Dissipation	35 W (depending on features)
Out of Band:	Frequency Agile receiver 70 to 130 MHz
	Bandwidth 2.0 MHz maximum
	Level -15 to 15 dBmV
Digital Input Level	64 QAM -15 to 15 dBmV
	256 QAM -12 to 15 dBmV
Dimensions	15.0 in W x 9.87 in D x 3.2 in H
	(38.1 cm x 25.07 cm x B.13 cm)
Weight	8 Lbs. (3.63 kg)

MANUFACTURING OPTIONAL FEATURES

Integrated MoCA" Home Networking interface (DCX3400-M) 250GB Hard Drive with Shock Mounting

All features, functionality, and other product specifications are subject to change without nouce or ob gration









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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 Mutti-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

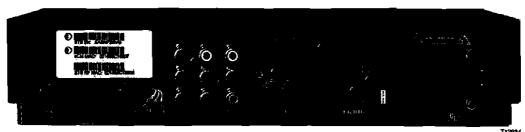
- Scientific Atlanta Resident Application (SARA) Software on a separable security settop supports native navigator and user interface in a non-OCAP service provider network environment (optional software)
- DAVIC Receiver/Transmitter allows IP-based, real-time, two-way communication between the set-top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

Standard Features

- 2 x 250 MIPS with Dual CPUs to provide the processing power for feeture-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



 $\mbox{\bf Note} :$ Image is of the 4250HDC back panel. Image may vary from actual product and specification.

Specifications

Front Panel	THE PROPERTY OF THE PROPERTY O
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

ario di mangana di kanangangan	
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
TO THE SOUTH THE	Marketon (1722), it also be also before the
Connections—Out	YPbPr, Secondary L/R Audio, Optical Digital Audio, HDMi™, and Dual tEEE-1394 6-Pln

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

	Standard
Tuning 	Audiovisual program reception on analog, QAM 64 and QAM 258 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 Engline	65,000 colors. 640x480 resolution, simultaneous scale MPEG-2 video
DAVIC	FDC (Forward Deta Channel) 1.54 Mbs QPSK, RDC (Revsrse 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)
Video Decoders	MPEG-2 MP@HL (HD, 1920 x 1080i, 1280 x 720p, 720 x 480p, and 720 x 480i)

		Tarak sangunalah
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

Proceedable 1	
Application/CPU	Two 250 MHz 32-bit RISC Processors (500 MIPs total)

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 8 in. (47 cm x 36 cm x 15.2 cm)
Total Weight	7.5 ibs in carton (3.4 kg)

Temperature Faince at	TELL TELL TELL TELL TELL TELL TELL TELL
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.

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

Accessories

Standard				
Shipped In Carton	Power Cord, Connection Guide			
Additional included f	ar 4260HDQ	AND FIRM		
Shipped in Carton	YPbPr Component Video and L/R Audio	YPbPr Component Video and L/R Audio Cable		
Optional		Part Number		
Sold Separately	Axlom 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 4	Description	Sek Top Wight Capia CARD	Set Top/ Catllet ARD Comba
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	4D16584
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	4D15782	4016583

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



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CableCARD, M-Card, and OCAP are registered trademarks of Cable Television Laboratories, Inc.
Menufactured under Ilcanse from Dolby Laboratories.
Dolby is a registered trademark of Dolby Laboratories.

HDMI is a trademark or registered trademark of HDMI Licensing LLC

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Scientific Atlanta, Inc.

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www.scientificatianta.com

Part Number 7008361 Rev A December 2008

Subscriber Networks



Explorer® 8300™ Series Digital Video Recorders Offer Standard, HD, and Multi-Room™ Capabilities

Description

The Explorer® 8300™ DVR provides subscribers with the latest enhancements in cable television viewing.

The Explorer 8300HD™ DVR provides HD subscribers with the latest HD DVR features.

The Explorer 8300 Multi-Room™ DVR provides subscribers access to recorded programs in multiple rooms throughout the home on standard Explorer set-tops.



8300 DVR Family Features

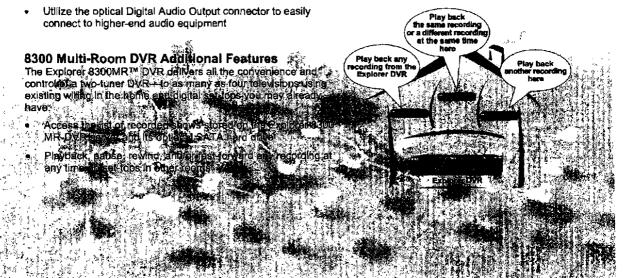
The Explorer 8300 DVR is a standard definition, two-tuner digital video recorder (DVR) that provides the DVR services your subscribers want:

- · Record one program while watching another
- Watch two programs at the same time, using the picture-in-picture (PIP) capability of the Explorer 8300 DVR
- · Record programs without a VCR
- Supports expanded storage through an optional external Serial ATA (SATA) hard drive
- Easily access video/audio Inputs and the USB port from the front panel, and access the Coaxial Digital Audio Output connector on the back panel

8300HD DVR Additional Features

The Explorer 8300HD DVR provides the same features as the standard definition 8300 DVR and more:

- Connect to the set-top through the YPbPr, HDMI™, or optional 1394 connectors to an HDTV
- Stretch and zoom the video picture to maximize its viewable area on the HDTV display
- Select the resolution (scan rate) best suited for the HDTV (480i, 480p, 720p, or 1080i)



Explorer 8300 Series Digital Video Recorders Offer Standard, HD, and Multi-Room Capabilities



Specifications

8300 and 8300MR-DVR Specifications

Base SD Model Features 🛴 💨	Description.
DVR with 80 GB Hard Drive	The 80 GB model allows up to 50 hours* of SD programs to be recorded and stored using DVR functions
(Larger hard drives are available. Contact your North American marketing manager for more	Gives subscribers complete control over watching, pausing, rewinding, replaying, and fast forwarding live programs using the remote control
Information.)	*The total program hours that can be stored depends upon the format and data rate of the programming source.
DAVIC Reverse Path Data Transmitter	Allows IP-based, real-time, two-way communication between the Explorer 8300 Series DVR and the cable service provider's headend
	Supports interactive services such as xOD (anything-On-Demand), VOD (video-on-demand), and SVOD (subscription VOD)
Optional DOCSIS® 1.0 cable modern	The internal DOCSIS 1.0 cable modern implements the Baseline Privacy Interface and DOCSIS SNMP MIBs. The upstream transmitter can send QPSK and 16-QAM bursts to any headend CMTS that implements DOCSIS 1.0 or DOCSIS 1.1 specifications.
MPEG-2 MP@ML Standerd Definition Digital Video Decompression	Allows decompression and presentation of audio and video Delivers up to 720 x 480i video resolution
Dual Analog and Digital Service Tuners (True Picture-In-Picture)	Allows both analog and MPEG-2 digital channels to be tuned and displayed Allows two programs to be displayed simultaneously using the PIP function
Dual Analog Encoders	Allows two analog SD programs to be recorded and displayed simultaneously
Dolby® Digita! Audio and MPEG-1 Audio Support	Supports digital audio decoding of two-channel MPEG-1 Layers I & II and Dolby Digital with up to 5.1 chennels of multi-channel surround sound. Also downmkes multi-channel Dolby Digital programs to surround-compatible left/right outputs.
PowerKEY®Conditional Access System	Provides digital security using an RSA encryption algorithm that mathematically matches pairs of keys
	Encrypts all recordings on an Internal hard disk drive or on an optionally attached external SATA hard disk drive
·	Allows upgrades using a network download
PowerTV® Operating System with HTML Client Engine	Offers a stable 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 640 x 480 IPG graphics while simultaneously scaling MPEG-2 video
Powerful 32-bit RISC Processors	Features two 250-MHz (500 MIPs total) processors to perform tasks and launch applications quickly

Explorer 8300 Series Digital Video Recorders Offer Standard, HD, and Multi-Room Capabilities

		Atlenta	
Base SD Model Features,	Description		
Over 96 MB Total Memory	Flash: Applications DRAM: Media DRAM: MPEG encoding: NVM:	512 KB 64 MB 16 MB 16 MB of DRAM 8 KB	
64 and 256 ITU J.83 Annex B QAM Support	Supports open stands	ards for QAM delivery and demodulation	
Both Internal Security Microprocessor and Smart Card Slot	Provides hardware-as upgrade the security,	Provides hardware-assisted conditional access options with capability to upgrade the security, if ever needed	
Macrovision [®] Copy Protection Support (licensing fee required to activate)	protection software, o	le service providers to add another layer of copy called Macrovision, that restricts unauthorized king analog copies of digital transmissions, such as	
BTSC/SAP Decoder	Provides stereo sound on analog channels through the baseband left and right audio outputs		
BTSC Encoder	Provides stereo soun	d on the RF coaxial output	
Coaxlat Digital Audio Output	Supports coaxial interconnection with surround sound receivers (includes the encoding of analog audio)		
Baseband Audio/Video Outputs	Offers a baseband audio/video connection to a VCR or TV		
RF Cable Out	Offers a composite audio/video connection to a VCR or TV		
Front Composite Audio/Video Inputs (will require a software enhancement download when available)	Supports interconnection to home consumer devices, such as VCRs, camcorders, or digital cameras for video and audio pass-through to the TV		
Provision for Name Branding	Allows you to brand the Explorer 8300 series DVR with your company name and logo		
External SATA Connector	External Serial ATA (SATA) connector provides a high-bandwidth connection to an External SATA hard disk drive for expanded storage space for recorded programs		
Optional Dual IEEE 1394 Digital Outputs with Digital Transmission Content Protection (DTCP) (will require a software enhancement download when available)	Optional dual IEEE 1394 outputs with DTCP will provide a 400-Mbps interconnection to digital display devices (HDTVs)		
Universal Serial Bus (USB) Port (will require a software enhancement download when available)	Front pariel USB port for easy-to-access connection with home consumer devices such as USB keyboards		

Explorer 8300 Series Digital Video Recorders Offer Standard, HD, and Multi-Room Capabilities



8300HD and 8300HD Multi-Room DVR Specifications

Additional HD Model Features			
DVR with a 80 GB or 160 GB Hard Drive (Larger hard drives are available.	The 160 GB model allows up to 90 hours* of SD programs or up to 20 hours* of HD programs to be recorded and stored using DVR functions Gives subscribers complete control over watching, pausing, rewinding,		
Contact your North American marketing manager for more information.)	replaying, and fast forwarding live programs using the remote control *The total program hours that can be stored depends upon the format and data rate of the programming source.		
Analog Component HDTV Outputs	Provides YPbPr outputs for quick and easy connection to most HDTV sets		
YPbPr and Audio Left/Right Cable Kit	Provides connection from the HD analog video and audio outputs to the HDTV set		
Optical Digital Audio Output	Supports optical interconnection with surround sound receivers (includes the encoding of analog audio)		
MPEG-2 MP@HL High Definition Digital Video Decompression	Allows decompression and presentation of audio and video Delivers the following video resolutions: 1920 x 1080i 720 x 480p 1260 x 720p 720 x 480i		
HDMi 1.0 Digital Audio/Video Output with HDCP Copy Protection	The High Definition Multimedia Interface (HDMI) provides uncompressed digital video and audio quality in a simple, user-friendly connector. HDMI, combined with HDCP (High-Bandwidth Digital Content Protection) provides the optimal, secure connection to an HDTV set that supports the HDMI with HDCP interface. HDMI is backward compatible with the DVI 1.0 with HDCP video interfaces on earlier versions of HDTVs.		
Over 112 MB Total Memory	Flash: 512 KB Applications DRAM: 64 MB Media DRAM: 32 MB MPEG encoding: 16 MB of DRAM NVM: 8 KB		
Optional Application Memory	Applications DRAM: 128MB		

8300 Series Dimensions

POOR OUTES DITTELISIONS		
Dimensions (all 8300 models)	Descriptions	A CONTRACT OF THE CONTRACT OF
Product Dimensions (WxDxH)	15.60 ln, x 11.20 in. x 3.25 in.	(39.7 cm x 28.5 cm x 8.3 cm)
Product Weight	8.3 lbs	(3.8 kg)
Carton Dimensions (WxDxH)	18.00 in, x 14.00 in, x 6.12 in,	(45.8 cm x 35.6 cm x 15.6 cm)
Weight Including Packaging	11.6 lbs	(5.3 kg)

8300 Series Placement and Temperature Range

Placement		
Placement Requirement	Locate the 8300 with at least two inches of open space above and on each side to provide adequate cooling.	
Temperature Range		
Room Temperature Range (Operating)	The 8300 should be installed in an environment where the air temperature surrounding the unit is between 40°F to 105°F (5C to 40C).	

Explorer 8300 Series Digital Video Recorders Offer Standard, HD, and Multi-Room Capabilities



Ordering Information

Contact your Sales Representative for product availability in your area.

Part.	Description	Availability
4003980	Explorer 8300 DVR with 80GB Hard Drive	Now
4007951	Explorer 8300 DVR with 80GB Hard Drive and Dual IEEE 1394 Ports	Now
4006190	Explorer 8300HD DVR with 160GB Hard Drive and HDMI	Discontinued*
4006781	Explorer 8300HD DVR with 160GB Hard Drive, HDMI, and Dual IEEE 1394 Ports	Now
4007317	Explorer 8300 Multi-Room DVR with 80GB Hard Drive	Now
4007950	Explorer 8300 Multi-Room DVR with 80GB Hard Drive and Dual IEEE 1394 Ports	Now
4003610	Explorer 8300HD Multi-Room DVR with 160GB Hard Drive and HDMI	Discontinued*
4006775	Explorer 8300HD Multi-Room DVR with 160GB Hard Drive, HDMI, and Dual IEEE 1394 Ports	Now
4008560	Explorer 8300 with 80GB Hard Drive and DOCSIS	Now
4008561	Explorer 8300HD with 160GB Hard Drive, HDMI, and DOCSIS	Discontinued*
4009287	Explorer 8300HD with 160GB Hard Drive, HDMI, DOCSIS, and Dual IEEE 1394 Ports	Now
4010581	Explorer 8300HD Multi-Room DVR with 160GB Hard Drive, HDMI, DOCSIS, and Dual IEEE-1394 Ports	Fourth Quarter, 2005
4011815	Explorer 8300HD DVR with 160GB Hard Drive, HDMI, DOCSIS, 128MB Application Memory, and Dual IEEE-1394 Ports	Fourth Quarter, 2005
4011816	Explorer 8300HD Multi-Room DVR with 160GB Hard Drive, HDMi, DOCSIS, 128MB Application Memory, and Dual IEEE-1394 Ports	Fourth Quarter, 2005

^{*}As required by US Code of Federal Regulations, Title 47, §76.640 (www.gpcaccess gov), these models are not produced or svallable after June 30, 2005.

Accessories

Accessories	
Part Number	Description
4006369	AllTouch® 8550 Universal Remote Control
1002048	HDMI to HDMI Cable
1002056	HDMI to DVI Cable (for use in connecting the HDMI port to older, DVI equipped HDTVs)
4004725	4-Port Splitter Isolation Module (SIM) for MR-DVR installations. For more information, refer to datasheet part number 7001717
4008261	Passive Isolation Module (IM) for MR-DVR installations. For more information, refer to datasheet part number 7007588
4011635	Inline Single Port Isolation Module for MR-DVR installations
749790	RGB adaptor and cables (for adapting Explorer HD set-tops to HDTV sets that are equipped with only RGB-type inputs) For more information refer to datasheet part number 752184.
4000633	Scientific-Atlanta Resident Application (SARA) DVR Software Installation CD (only order one CD for each headend)

Software

Part Number Description	
4000633	Scientific-Atlanta Resident Application (SARA) DVR Software Installation CD (only order one CD for each headend)
752351	DVR Software License (line itam on Explorer 8300 DVR Purchase Order)



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Specifications and product availability are subject to change without notice.

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Scientific-Atlanta, Inc. 1-800-722-2009 or 770-236-6900 www.scientificatlanta.com

Part Number 7004920 Rev D October 2005

Cisco Explorer RNG100 and RNG100N Digital-Only Interactive Set-Tops with Multi-Stream CableCARD Interface

Power, flexibility, and advanced security features highlight the Cisco® Explorer® RNG100 and RNG100N Digital-Only Interactive Set-Tops with Multi-Stream CableCARD™ (M-Card™) interface. Additionally, the RNG100N supports MoCA™ (Multimedia over Coax Alliance), which lets subscribers use their cable wiring for LAN connections.

Both set-tops support tru2wayTM (formerly OCAPTM) and separable security. Both set-tops also offer MPEG-4 (H.264) standard definition (SD) and high definition (HD) decoding with SD outputs, DOCSIS[®] 2.0 data capability, and an Ethernet Interface for home networking.

Figure 1. RNG100 Front Panel (tha RNG100N Front Panel is similar)



Features

Network Utilization Enhancements

- 1 GHz Tuning lets cable operators expand network bandwidth to provide additional services such as VOD, tru2way, DOCSIS 2.0, and high speed data
- MPEG-4 (H.264) Decoding supports MPEG-4 compression technology, which provides better video quality at approximately half the date rate of MPEG-2
- DOCSIS 2.0 provides greatly increased upstream throughput for future advanced services and provides a path for future IP video services (optional software)

OpenCable™ and Conventional Network Support

- M-Card Interface uses a Multi-Stream CableCARD (M-Card) for separable security
- Axiom™ Middleware supports OpenCable applications such as Service Navigators, Games, and future applications (optional)
- DSG (DOCSIS Set-top Geteway) provides a powerful standard transport mechanism for command and control signaling between a set-top and service provider network (optional)
- DAVIC Receiver/Transmitter allows IP-based, real-time, two-way communication between the set-top and service provider network for on-demand services (optional)

Page 1 of 4