



Data Sheet | RNG200N Dallas

All Digital MPEG-4/MPEG-2, High-Definition DVR Set-Top Box Solutions



Pace's "Dallas" and "Denali" range of high-performance HD set-top boxes (STBs) feature fully integrated MoCA® 1.1 for home content sharing and Multiroom DVR functionality.

Options include CableCARD™ Conditional Access for systems in the United States and Embedded Conditional Access for Canadian and Latin American markets.

The "Dallas" HD-DVR includes an easy fit, replaceable Hard Disk Drive (HDD) subassembly for service purposes, which may also be retrofitted to "Denali" eSATA STBs for full DVR upgrades.

The "Dallas/Denali" STB range provides cable operators with a robust, leading edge secure platform for authorization entitlements, code download, and billing system messages and signaling through an out-of-band (OOB) messaging system.

The range also runs native electronic program guide applications commonly found at today's cable systems, including VOD and next-generation applications.

Summary

- CableCARD and Embedded Conditional Access versions available
- 500 GB Hard Drive as standard on all "Dallas" models
- HDD upgrade option on "Denali" models
- Support for External HDD via eSATA as standard
- 4 MB Flash memory
- 512 MB SDRAM
- In-band and OOB tuners with RF return
- Comprehensive and advanced device connectivity including HDMI™
- LED clock/channel display
- 10 LED indicators: Power, IR Receive, HD, Data, Record, 480i, 480p, 720p, 1080i and 1080p
- Enhanced on-screen diagnostics including Pace Diagnostic Dashboard
- 1500 Dhrystone MIPS Processor
- 5.1 Dolby Digital Plus™
- AC-3 Matrix surround down mix to Stereo L/R RCA outputs
- Ethernet port
- SNMP support for remote diagnostics

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Technical Specifications



RF Interfaces

2 x In-band, 54 MHz-1 GHz Video Tuner (with QAM 64/256 decoding)

1 x In-band, 54 MHz-1 GHz DOCSIS® Tuner

1 x OOB, 70-130 MHz Agile Tuner with QPSK decoding (including support for 104.2 MHz)

1 x RF Return, 5-42 MHz, QAM, QPSK Modulator (compliant with Starvue II/DVS178/SCTE 55-1)

DOCSIS Cable Modem

DOCSIS 2.0 Cable Modem

Advanced DSG Support

Audio/Video Output

MPEG-2 MP@ML and MP@HL ATSC A/54 decode up to 1080p30

MPEG-4 MP@ML and MP@HL ATSC A/54 decode up to 1080p30

HDMI 1.3a Audio/Video Out with HDCP copy protection

Component (Y Pb Pr), Composite Video RCA outputs

Native 480i, 480p, 720p, 1080i and 1080p30 scaling modes

Simultaneous HD output via HDMI and Y Pb Pr outputs with HD video downscaled to SD on CVBS output

Independent scaling of video/graphics on HD and SD outputs

Support for Zoom, Stretch and Crop

Constrained image support if CCI flag set on Component video outputs and HDMI if HDCP not in effect

Macrovision copy protection capability v7.1 inc. support for Component video output

5.1 Dolby Digital Plus optical and coaxial output

AC-3 Matrix surround down mix to Stereo L/R RCA outputs

Ch 3/4 modulated RF output

Front Panel

LED clock/channel display

LED indicators for Message, Bypass, HDTV, Power, IR, Record, Play

System Processor/Memory

1500 Dhrystone MIPS processor for system and application use

64 MB Flash memory

512 MB SDRAM (Unified MPEG Decode/Graphics system run from RAM) as standard

512 KB Non-volatile managed storage area within Flash with random bit wise access

500 GB Hard Drive as standard on "Dallas" models, upgrade option on "Denali" models

Support for external HDD via eSATA as standard

Conditional Access

Multistream CableCARD (M-Card) and Embedded MediaCipher™ security versions of "Dallas" and "Denali" models available

CableCARD located behind flush mount cover

Pace Software

Pace EngineWare™ software v3.0 and STT driver code

Set-Up and Diagnostics

Diagnostic screens and Dashboard for on-site installation and debug

SNMP support for remote diagnostics

Display configuration menu

Software Update Mechanism

OOB Software Download Mechanism

Accessories

Consumer Quick Start Guide

External Power Supply

Model	Model Number(s)	Pace Part No(s)
"Dallas" HD DVR with CableCARD™	RNG200N	C0203339900
"Denali" HD eSATA with CableCARD™	RNG150N	C0193340000
"Dallas" HD DVR with Embedded Security	RNG200N	B9503339100
"Denali" HD eSATA with Embedded Security	RNG150N	B7023439000



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