



Simply better...

Pace DC-550 HD Digital Cable Set-top

TECHNICAL SPECIFICATION



...Features

Performance

- 175MIPs main processor plus 85MIPs graphics paxel engine - 260 MIPs aggregate total
- Run-from-Ram code execution

High Definition with the most responsive performance, the Pace DC-550 HD employs industry leading processing speed with sophisticated Run from Ram execution and generous applications memory provision as standard.

Compact and Unobtrusive

An attractive design and less than 12 inches wide. This will elate consumers who want products that don't take up lots of space in their entertainment centers, and cable operators who expect efficient use of space in their warehouses and trucks.



Energy Star[®] Compliant

Set-tops that meet the Energy Star[®] specification consume up to 20% less electricity than a conventional set-top while delivering the same quality and features, saving your customers money on their energy bills.

...Choice

- Drives Innovation**
- Creates Pricing Pressure**
- Reduces Risk of Supply Shortages**
- Improves Delivery Flexibility**
- Decreases Reliance on Specific Silicon Solutions**

Enhanced and Secure Connectivity

- Built-in DVI-D 1.0 with HDCP capability providing secure digital display connectivity today, saving a truck roll in the future
- No resolution downgrade on secure connection
- Includes component inputs for loop-through
- Support for 1394 (Optional)

Advanced Video Scaling

The Pace DC-550 HD has powerful scaling ability allowing both Standard Definition and High Definition program content to be automatically scaled and scan rates changed to ensure the user sees a picture the way they want to watch it, avoiding bars around the picture.



The Pace DC-550 HD also scales video to the upper right corner of the program guide for both Standard Definition and High Definition video content.



>> DC-550 HD
Digital Cable
Set-top



1 Component video loop-through connectivity

Component video loop-through allows customers to simply connect consumer electronics devices such as component video DVD players through their set-top to their HDTV, especially valuable as some budget HDTV's have only one set of component video inputs.

2 Digital Quality and Content Security as standard

DVI 1.0 display connectivity is standard with HDCP Copy protection capability, and optionally available dual IEEE 1394 5C with DTCP (Digital Transmission Content Protection).

3 Optical and electrical audio connectivity with loop-through

Loop-through is important as many TVs and home theater audio systems do not have sufficient built-in connectors. Many home theater audio systems use optical connectivity and will not work with boxes that only support electrical audio outputs. The digital audio output on the Pace DC-550 HD is always live. For all analog and digital content.

4 Hiding the set-top

The Pace DC-550 HD includes an IR receiver socket into which an optional IR receiver on a cable tether can be plugged, so customers can place their set-top out of sight and still use their remote control to operate it, providing consumers more options for installation.

...Design

PowerKey™ Network Compliant
DAVIC Return Path
Durable and Crisp Design

The Pace DC-550 HD Digital Cable Set-top provides support for digital and analog services delivered through a hybrid fiber/coax(HFC) network with full Scientific-Atlanta PowerKey™ interoperability. The Pace DC-550 HD is designed for reliability with a patented heat sink for our core processor and innovative silicon tuners. Pace also recognizes that the life a set-top is not an easy one with each product typically passing through multiple homes over time. The Pace DC-550 HD enclosure uses an advanced material design, a durable self-colored ABS and polycarbonate compound. Pace has also combined a non-brittle thermoplastic rubber foot with a nylon-6 snap rivet to make sure the feet stay intact and firmly attached. These advanced materials minimizes the appearance of wear and tear and reduces the operators cost of refurbishment when cycling set-tops due to churn. The Pace DC-550 HD Digital Cable Set-top is designed, produced and delivered with the unique needs of digital cable subscribers and operators in mind.

...Support

Pace prides itself on having successfully delivered our digital solutions to the largest cable operators in the world, including both Time Warner Cable and Comcast Cable. Along the way we have built a strong reputation in North American by supplying top quality, reliable and innovative solutions to our cable operator customers. We continue to provide, 24 hour a day, 7 days a week, customer support to ensure successful digital deployments. We have some of the most experienced field engineers in the industry positioned across the country, with a proven track record and a wealth of experience in North American cable deployments, Pace has the ability to bring our products online quickly and reliably.

...Technology

• HARDWARE FEATURES

- MPEG- II MP@ML and MP@HL support
- 1x MPEG In-band, 54-862 MHz tuner with QAM 64/256 decoding
- 1x DAVIC Out-of-band, 70-130MHz tuner with QPSK
- 1x RF Return, 5-26.5MHz, QAM/QPSK modulator, DAVIC 1.2 MAC or DVS
- 167BTSC audio demodulation
- AC3 Audio and PCM audio playback
- Y Pb Pr Component video out
- Y Pb Pr Component video input (for loop -through)
- DVI 1.0 video out with HDCP capability
- Baseband outputs for video and dual audio L&R on RCA (phono)
- Baseband inputs for video and audio L&R on RCA (phono)
- 5.1 Dolby Digital electrical and optical output
- 5.1 Dolby Digital electrical and optical input (for loop -through)
- S-Video output
- Macrovision copy protection capability v7.0.1
- 175 MIPS 32-bit RISC Microprocessor (MIPS-R4000)
- 85 MIPS Graphics Microprocessor
- 4-digit 7 segment display & message, bypass, HDTV, power LEDs
- 11 switches on front panel
- Support for Cyclops II remote control (to be supplied by MSO)
- IR Tx support via 3.5mm jack for VCR control
- IR Rx support of external IR Receiver (Enables set-top to be out of sight)
- Single USB (Host) port (front panel)
- Switched Power Outlet

• MEMORY CONFIGURATION

- 8 Mbyte FLASH
- 32 Mbyte system SDRAM
- 32 Mbyte video SDRAM
- 8 Kbyte E2PROM
- 32k In band FEC SRAM

• SOFTWARE FEATURES

- Standard operating systems support PowerTV
- SARA and Passport support
- VOD Support - nCube, Seachange, Concurrent, N2Broadband

• CONDITIONAL ACCESS

- Smart card reader module allows renewable secure access
- Support for associated 7816 Smart card reader (front panel)
- Supports DES CBS (Harmony)
- Supports DES EBC (PowerKey)
- Supports DVB CSA (common scrambling algorithm)

• GRAPHICS OVERLAY

- 640 x 480 16-bit per pixel graphics with arbitrary scaling

• ACCESSORIES – included with unit

- User manual
- 2m power cord IEC compliant



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[This specification is subject to improvement and change without notice]

Simply better... **High definition**