Pace DS420 Digital Satellite Set-top Box

TECHNICAL SPECIFICATION

Support for Tomorrow’s Broadband Content

The Pace 400 series offers several A/V options plus USB and Ethernet* connectivity to integrate content from a variety of sources. In addition, RS-232 and a choice of PSTN modem variants may be specified.

Intelligent Design

Styled in an elegant, low-profile cabinet the 400 series uses an innovative concealed cable bay design, ensuring all ports and connectors can be accommodated in a small form factor by making full use of the rear panel and a hidden side panel.

There are three base designs available for the front panel incorporating 4, 8 or 11 buttons, all optionally available with a 4-digit 7-segment LED clock display. A second smart card slot for interactive or banking applications is also an option, as is a PC Card Slot for Common Interface. Four software controllable LEDs (1 bi-colour) completes the front panel equipment.

Performance

- Enhanced MPEG-2 decoder, offering a 166MHz CPU that delivers in excess of 110MIPS
- Multichannel burst DMA engine for enhanced real-time stream transfers and true colour RGB16 graphics capability
- DVB transport streams can be handled with data rates up to 120Mbits

Features

- VBI Teletext and Wide Screen Signalling support for 4:3, 14:9 and 16:9 formats to EN 301 775 and pan & scan 4:3 presentation of 16:9 sources. Compliant with Active Format Descriptors as described in DVB TR 101 154
- To prevent unauthorised copying, the output video signal can be encoded using Macrovision 7.0!
- The device will display DVB subtitling as described in ETS 300 743

Software

A variety of middleware options are available including OpenTV & NDS Core. By default however the impressive on-screen navigator and embedded Electronic Program Guide (EPG) offers many advanced features and there is also the possibility of upgrading to a third party middleware or Conditional Access (CA) with an over the air upgrade.

- TDT clock updates over the network
- Automatic or manual channel scan
- Automatic Bouquet updates
- Fast (NIT) scan and exhaustive scan
- Comprehensive banner info including present/following programme data
- Parental locks
- 8 day channel guide
- Multilingual GUI
GENERAL SPECIFICATION

HARDWARE

DVB compliant video and audio decoder
Supports MPEG-2 video at MP@ML with support for incoming MPEG-2 transport streams at bit rates up to 120Mbps
DVB compliant QPSK
Tuner with single LNB Input QPSK demodulation and error correction
350mA power source available for LNB
22KHz LNB Tone Generation compliant with DiSEqC1.2
RF Remodulator offers VHF/UHF PAL output
Display Resolution PAL: 576 lines by 720x25Hz
5 video planes for background colour, video plane (MPEG-2), still image, OSD and sub-picture/cursor plane
Support for I-MPEG and JPEG still image display
MPEG-1 and MPEG-2 Audio Decode layers I, II, &III
Stereo (inc. surround), Joint Stereo, Dual Channel, Mono audio modes supported
PCM audio mixing with MPEG audio
Downmix of PCM or AC-3 signal to analogue audio*
V.22, V.34, V.90 or V.92 Telco Modem options
RC6 & MK4 RCU IR protocol support as standard

MEMORY CONFIGURATION

8Mbyte unified SDRAM expandable to 32Mbyte
2Mbyte NOR FLASH expandable to 8Mbyte
128kbit or 256kbit EEPROM NVRAM options

CONDITIONAL ACCESS

Support for DVB CSA based Conditional Access including:
NDS, Nagra, Conax, Viaccess, Irdeto, Mediaguard

CONNECTIVITY

TV SCART
VCR SCART (Phono connectors are available in place of SCARTs)
RF Remodulator*
Active Antenna Input*
S-Video Connector*
Optical SP-DIF output*
Analogue audio L & R phono outputs*
USB 1.1 Host Port Type A *
10Base-T 802.3 Ethernet Port*
Telco Modem Port *
RS232 Serial Port*
Second Smart Card Reader*
Common Interface PC card slot*

POWER

Mains Input Voltage: Auto Ranging 185V-265V ac 50/60Hz
Power Consumption 15W typical (no external load except LNB supply)
Standby Consumption <5W

*Optional feature

For more information on the DS420 or any other Pace products you can visit our website www.pace.co.uk/paceproducts/index.asp

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