

# DS810 Digital Satellite High Definition MPEG-4 AVC/H.264 Set-top Box

## TECHNICAL SPECIFICATION



### Fully-Featured Multiformat High Definition Set-top Box

One of the first multiformat High Definition Set-top Boxes for the European market, the DS810 is uncompromising in its ability to deliver exceptional audiovisual quality into the home.

The DS810 is packed with support for the leading edge digital TV standards and content protection technology including MPEG-4 AVC/H.264, Dolby Digital, AAC HE, DVB-S2, DiSEqC 1.2 HDMI with HDCP, 3DES, AES and USB 2.0.

The DS810 allows the viewer to watch High Definition MPEG-2, MPEG-4 AVC/H.264 or standard definition programmes at the best possible quality. The DS810 has an auto set up feature, which enables it to be easily configured for use with most types of display – SD or HD - together with various connector types to provide simple connection to the latest display technology.

In addition, the DS810 can output High Definition content to a HDMI display and simultaneously output in re-formatted Standard Definition to a second TV or VCR using the SCART, composite and s-video outputs.

### Performance

The superior performance of the DS810 is based on a 300MHz core CPU that delivers in excess of 420DMIPs. Our uncompromising digital design includes true colour 2D/3D graphics processing and a dedicated audio/video AVC High Definition decoder.

### Design

The new styling is designed to blend with the latest trends in home audiovisual equipment.

There are 8 fully programmable front panel buttons, 3 LEDs and a hidden front panel smart card reader and CI slot to ensure that a wide range of user requirements can be catered for. Together with a reduced form factor and low profile, the DS810 design integrates seamlessly with the latest home entertainment equipment.

### Software

The DS810 offers an impressive Pace designed on screen navigator and embedded EPG delivering many advanced features.

It will initially be available with the Nagravision CA system and a Common Interface slot to provide for a range of different content protection systems. The DS810 is also software upgradeable to support popular middleware options.

### Features

- Compliant to DVB-S and DVB-S2 requirements
- Dynamic Channel Management
- Parental Control
- Multifeed (DiSEqC 1.2 capable)
- Integrated Conditional Access System
- Integrated Common Interface (PCMCIA) for most DVB Common Descrambling systems
- High Definition Content Protection (HDCP) for securely passing digital signals to the display
- Favourite channel list for TV and radio, memory for 4000 programmes, multilingual onscreen menus
- Quick and extensive EPG with a preview up to 8 days
- DVB subtitles, analogue teletext with loop through to SCART
- Large size alphanumeric display (8 digits)
- Accessories include an HDMI Cable, SCART lead, remote control, batteries and user manual



## >> DS810

Digital Satellite  
High Definition MPEG-4  
AVC/H.264Set-top Box



## Rear panel connections:

**RF Inputs (IEC169-24 F-type, female)** – Dual IF input to connect to Satellite Dish via Dual/Quad LNB.

**HDMI** – Secure High Definition digital output to display with HDCP.

**Terrestrial Antenna Loop-Through (IEC60169-2)** - Adds a modulated UHF/VHF video output to an existing terrestrial antenna feed.

**TV SCART (IEC60807-9)** – Primary TV connection for RGB, composite video and L/R Audio. Audio volume level can be adjusted under software control.

**VCR SCART (IEC60807-9)** – Composite video and L/R audio output connector for a VCR. Loop-through facility to the TV SCART connector when in standby.

**Mains Input (IEC60320)** – C8 male figure-of-8 connector.

**Telephone Line Socket (RJ11)** – Internal V90 modem.

**USB 2.0 (Type A)** – For connection to variety of electronic devices.

**Ethernet (RJ45 Female)** – Access to broadband return path or network.

**RS232 (9 Pin D-type)** – Serial port for service and factory use.

**Analogue Audio (RCA Phono/Cinch)** – For users wishing to integrate the set-top box into their home audio system.

**Optical SPDIF (TOSLINK)** – Optical cable connection to a suitably equipped surround sound audio system or Hi-Fi amplifier.

**Electrical SPDIF Output (RCA Phono/Cinch)** – Coaxial cable connection to a surround sound audio system or Hi-Fi amplifier.

**S-Video Connector (Mini-DIN)** – High quality analogue video, SD YC format.

**Composite Video (RCA Phono/Cinch)** – Composite video output.

**Component Video (RCA Phono/Cinch)** – Analogue video output of high definition video signal in YPbPr format.

For more information on the DS810 or any other Pace products you can visit our website [www.pacemicro.com/products](http://www.pacemicro.com/products)



**Pace Micro Technology plc**

Victoria Road Saltaire Shipley West Yorkshire BD18 3LF England

Tel: +44 1274 532000 Fax: +44 1274 532010

[www.pacemicro.com](http://www.pacemicro.com)

## GENERAL SPECIFICATION

### HARDWARE

Main Core Processor @ 300MHz (420DMIPS)  
950MHz-2150MHz QPSK/8PSK tuner and DVB-S/DVB-S2 demodulator giving 2Mb/s to 30Mb/s performance  
Supports LNB switching current source for LNB up to 400mA  
22kHz LNB control and DiSEqC 1.2 communications protocol  
High Definition and Standard Definition single video decoding 576i25, 720p50, 1080i25  
MPEG-2 MP@ML, MPEG-2 MP@HL  
MPEG-4 AVC/H.264 HP@L4.0 1920x1080 interlace @50Hz (25fps).  
CABAC and CAVLC decoding  
Supports all intra/inter prediction modes and block sizes  
I,P and B picture types  
Fidelity range extensions (8x8 Transforms, 8x8 Spatial Prediction Mode, Dynamic Quantization Matrix)  
AC3 (Dolby Digital Stereo), MPEG-4 (AAC-HE)  
MPEG-1 layers 1, 2 and 3 (MP3)  
Audio decoder, sampling rates 23, 44.1 or 48kHz  
Image format 4:3 or 16:9 aspect ratios  
Integrated Conditional Access system with smartcard reader (ISO 7816-1,2,3)  
Integrated Common Interface (CI)  
Macrovision copy protection  
64MB or 128MB DDR DRAM Memory Options  
8MB Main Flash, 32KB NVRAM  
8 buttons and 3 LED's on the front panel  
Dot Matrix Display  
IR-remote control - RC6 36/38 KHz

### SOFTWARE

Range of middleware, CA and customisation options  
Advanced installation and diagnostics features  
Secure bootloader and upgrade capability  
Multilingual graphical User Interface  
DVB-subtitles according to ETS 300 743  
Analogue Teletext loop through to TV  
Software download via Satellite into Flash Memory is supported  
Multiple language and territory support options

### POWER

Mains supply voltage 230VAC +/-15%, 50Hz  
Power consumption 30W typical including LNB control

### MECHANICAL

Dimensions: 390mm x 280mm x 54mm  
Weight: 2.4kg approx

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

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