

# DS810XE 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 be available with Common Interface slot to provide for a range of different content protection systems.

### Features

MPEG-2 and MPEG-4 AVC/H.264

Compliant to DVB-S and DVB-S2 requirements

HDMI-Output

Dynamic Channel Management

Multifeed (DiSEqC 1.2 capable)

Integrated Common Interface for most DVB Common Descrambling systems

High Definition Content Protection (HDCP) for securely passing digital signals to the display

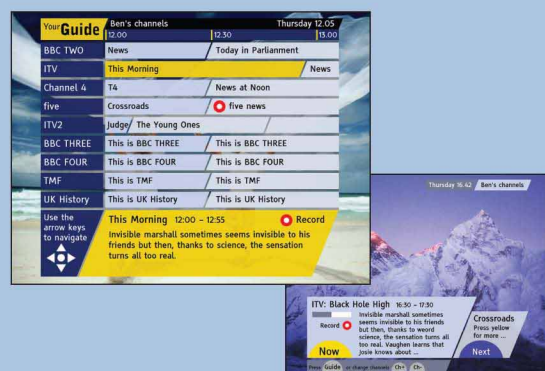
Favourite channel list for TV and radio, memory for 4000 programmes, multilingual onscreen menus

Quick and extensive EPG with up to 8 days preview DVB subtitles.

Optical cable connection (SPDIF) to a suitably equipped audio sound system or Hi-Fi Amplifier Analogue teletext with loop through to SCART

Large size alphanumeric display (8 digits)

Accessories: HDMI Cable, SCART lead, remote control, batteries and user manual



## >> DSB10

Digital Satellite  
High Definition MPEG-4  
AVCHD.264Set-top Box



### Rear panel connections:

- 1 RF Inputs (IEC169-24 F-type, female)** – IF input to connect to Satellite Dish LNB with loop through.
- 2 TV SCART (IEC60807-9)** – Primary connection for SD television with RGB, composite video and L/R Audio. Audio volume level can be adjusted under software control.
- 3 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.
- 4 Analogue Audio (RCA Phono/Cinch)** – For users wishing to integrate the set-top box into their home audio system.
- 5 Component Video (RCA Phono/Cinch)** – Analogue video output of high definition video signal in YPbPr format.
- 6 HDMI** – Secure High Definition digital output to display with HDCP protection.
- 7 Optical SPDIF (TOSLINK)** – Optical cable connection to a suitably equipped surround sound audio system or Hi-Fi amplifier.
- 8 USB 2.0 (Type A)** – For connection to a variety of electronic devices.
- 9 Telephone Line Socket (RJ11)** – Internal V90 modem.
- 10 Mains Input (IEC60320)** – C8 male figure-of-8 connector.

### 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  
22kHz LNB control and DISEqC 1.2 communications protocol  
High Definition and Standard Definition single video decoding  
576i/25, 576p/50, 720p/50, 1080i/25  
MPEG-2 MP@ML, MPEG-2 MP@HL  
MPEG-4 AVC/H.264 HP@L4.0 1920x1080 interface@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), E-AC3 (Dolby Digital Plus)  
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 Common Interface (CI)  
Macrovision copy protection  
64MB or 128MB DDR DRAM Memory Options  
16MB 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

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

#### 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

**PAGE DVB**