



## Key Features

- Fully DVB-S compliant
- 2 Common Interfaces (for CONAX, CRYPTOWORKS, IRDETO, NAGRAVISION, SECA, VIACCESS)
- DiSEqC 1.0, 1.1, 1.2 and USALS (DiSEqC 1.3)
- 5000 services (TV and Radio) programmable
- Service Switching Time less than 1 second
- Service List Editing
- Favourite Service List Editing
- 30 Favourite Service Groups Support
- Automatic and Manual PAL/NTSC Selection
- Multilingual Audio Support
- Multilingual Menu Text Support
- 256 color On-Screen Display (OSD)
- GMT and Time Offset Support
- Full Picture in Graphic (PIG) Function
- Electronic Program Guide (EPG) for on screen service information
- Subtitle supported
- Teletext supported by VBI insertion and software emulation
- Parental Lock Facility by service and program event
- Firmware and Data transfer from receiver to receiver
- Exciting games embedded
- S/PDIF for digital audio or Dolby AC-3 bitstream output
- SCART and RCA A/V output
- RF-modulator output
- S-VIDEO output
- YUV and S-VIDEO output via SCART connector
- VCR Timer function
- Built-in Positioner  
(High Power Azimuth Control, 36VCD, 3A)



**TOPFIELD**  
Multimedia Home Gateway

## Tuner and Channel Decoder

|                          |   |
|--------------------------|---|
| Input Connector          | F-type, IEC 169-24, Female  |
| Frequency Range          | 950 ~ 2150MHz   |
| Signal Level Input       | -65 ~ 25dBm   |
| LNB Power & Polarisation | Vertical: +13.5VDC, Horizontal: + 18.5VDC<br>Current: Max 500mA Overload protection |
| 22KHz Tone               | Frequency: $22 \pm 1$ KHz, Amplitude: $0.65 \pm 0.2$ V                              |
| Demodulation             | QPSK  |
| Input Symbol Rate        | 1 ~ 45 Msps   |
| Code Rate                | 1/2, 2/3, 3/4, 5/6 and 7/8 (automatically detected)                                 |

## MPEG Transport Stream A/V Decoding

|                  |                        |
|------------------|------------------------|
| Transport Stream | ISO/IEC 13818-1 MPEG-2 |
| Profile Level    | MPEG-2 MP@ML           |
| Aspect Ratio     | 4:3, 16:9              |
| Video Resolution | 720 x 576              |
| Audio Decoding   | MPEG-1 Layer 1 & 2     |

## Main Stream

|                |          |
|----------------|----------|
| Main Processor | RISC CPU |
|----------------|----------|

## RF - Modulator

|                |                                |
|----------------|--------------------------------|
| RF - Connector | 75Ω, IEC 169-2, Female/Male    |
| Output Channel | CH21~69 (PAL)/CH14 ~ 83 (NTSC) |
| TV Standard    | PAL G/I/K, NTSC-M              |

## Conditional Access Interface

|        |  |
|--------|--|
| PCMCIA | 2 Slots, DVB Common Interface Standard |
|--------|--|

## A/V & Data In/Out

|           |   |
|-----------|---|
| TV-Scart  | Video CVBS/S-VIDEO/RGB/YUV output Audio L/R output  |
| VCR-Scart | Video CVBS output, Audio L/R output,<br>Video CVBS/S-VIDEO/RGB/YUV input for bypass<br>Audio L/R input bypass |
| S-VIDEO   | S-VIDEO output  |
| RCA A/V   | CVBS output, Audio L/R Output   |
| S/PDIF    | Digital audio or Dolby AC3 bitstream output   |
| RS-232C   | 9 pin D-sub type, Transfer rate : max 115.2kbps   |

## Front Panel

|                        |                                  |
|------------------------|----------------------------------|
| Keys                   | 5 Keys (Ch-/+, VOL -/+, STANDBY) |
| LEDs                   | EXT, REMOTE, STANDBY             |
| 4-digit 7-segment LEDs | Service number or Time display   |
| RCU                    | 39 Keys                          |

## Power Supply

|                   |                                 |
|-------------------|---------------------------------|
| Input Voltage     | 90 ~ 250VAC, 50/60Hz            |
| Type              | SMPS                            |
| Power Consumption | Running: Max 230W, Standby: 10W |

## Positioner & Skew

|                   |  |
|-------------------|--|
| Terminals         | M1, M2, PULSE, GND, +5V, SKEW                    |
| Positioner Power  | +36VDC, Max 3A (During 5 minutes)                |
| Sensor Type       | Reed Switch                                      |
| Skew Output Power | +5VDC, Max 100mA                                 |
| Protection        | Separate internal fuse with lightning protection |

## Physical Specifications

|                  |                   |
|------------------|-------------------|
| Size (W x H x D) | 340 x 60 x 265 mm |
| Weight (Net)     | 2.7 kg            |