



1. Tuner & Channel

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|------------------------------|--|
| Input Connector | 1 x F type with Loop through |
| Output Connector | 1 x F type 75 Ohm |
| Frequency Range | 950MHz to 2150MHz |
| Input Impedance | 75 Ohm |
| Signal Level | -25 to -65dBm |
| IF Frequency | 480MHz |
| IF Bandwidth | 36MHz |
| LNB Power & Polarity control | Vertical +13.5V ~ +14.5V Horizontal +17.5V ~ +18.5V |
| 22KHz Tone | Frequency 22kHz ± 2kHz Amplitude 0.6Vp-p ± 0.2Vp-p |
| Demodulation | QPSK |
| Input Symbol Rate | 2 - 45Mps |
| FEC Decoder | Convolutional Code Rate 1/2, 2/3, 3/4, 5/6, and 7/8 with Constraint Length K=7 |

2. MPEG Transport Stream A/V Decoding

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|---------------------|--|
| Transport Stream | MPEG-2 ISO/IEC 13818 Transport Stream Specification |
| Profile & Level | MPEG-2 MP@ML |
| Input T/S Data Rate | 80Mbit/S max |
| Aspect Ratio | 4:3, 16:9 |
| Video Resolution | 720 x 576 (PAL), 720 x 480 (NTSC) |
| Audio Decoding | MPEG audio layer 1 & 2, musicam |
| Audio Mode | Stereo, Dual Channel, Joint Stereo, Mono |
| Sampling Rate | 32, 44.1, and 48kHz |

3. Memory

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|--------------|----------------|
| Flash Memory | up to 2M bytes |
| Program DRAM | up to 8 Mbytes |
| EEPROM | 16 Kbytes |

4. A/V & Data In/Out

| | |
|------------------|---|
| SCART | TV x 1, VCR x 1 |
| RGB video out | TV SCART x 1 |
| CVBS video out | RCA x 1, SCART x 2 (TV, VCR) |
| S/PDIF | RCA x 1 |
| Analog audio out | RCA x 2 (L-CH x 1, R-CH x 1) |
| | SCART x 2 (TV, VCR) |
| | Resolution 16bit DAC |
| | Output Level 2Vrms Max |
| | Volume & mute control |
| Data interface | RS232C, Baud Rate 9600 ~ 115200, 9 Pin D-Sub |

5. PCMCIA

| | |
|----------------|-------------------------------------|
| Number of Slot | 2 |
| Type | I, II DVB Common Interface Standard |

6. Conditional Access

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|-------------------|---------------------|
| Embedded Viaccess | 1 Smart Card Reader |
|-------------------|---------------------|

7. RF Modulator (Option)

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|------------------|------------------------------|
| RF-connect | 75Ohm, IEC169-2, male/female |
| Output frequency | 470MHz to 860MHz |
| Output channel | CH 21 ~ 69 |
| TV standard | PAL D/K, PAL B/G , PAL I |

8. Power Supply

| | |
|-------------------|---|
| Input Voltage | AC90-240V, 50/60Hz |
| Type | SMPS |
| Power Consumption | 40W max. (Below 7W max. For stand-by mode) |
| Protection | Separate internal fuse and chassis grounding and the input shall have lighting or electric shock protection |

9. Physical Specifications (250mm/w available)

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|-----------------|----------------------|
| Size(W x H x D) | 320mm x 60mm x 220mm |
| Weight | about 2.0 Kg |

10. Environment

| | |
|-----------------------|-------------------|
| Operating Temperature | + 5 °C ~ + 50 °C |
| Storage Temperature | - 40 °C ~ + 65 °C |