

1. Tuner & Channel

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 - 45Mpsps
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

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 480(NTSC)
Audio Decoding	MPEG-1 Audio Layer 1, Layer 2
Audio Mode	Stereo, Dual Channel, Joint Stereo, Mono
Sampling Rate	32, 44.1, and 48kHz

3. Memory

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

4. A/V & Data In/Out

S-VHS OUT	Mini DIN x 1
CVBS Video Out	RCA x 1
Digital Audio Out(S/PDIF)	RCA x 1
Analog audio out	RCA x 2(L, R) 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. Conditional Access

Embedded Viaccess	1 Smart Card Reader
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6. RF Modulator (Option)

Connector	75Ohm F-type
Output channel	CH 3, 4
TV standard	NTSC

7. Power Supply

Input Voltage	AC90 - 120V 60Hz SMPS
Type	SMPS
Power Consumption	30W Max. (Below 7W max. For stand-by mode)
Protection	Separate internal fuse and chassis grounding and the input shall have lightning or electric shock protection

8. Physical Specifications

Size(W x H x D)	250mm x 40mm x 200mm
Weight	about 2.0 Kg

9. Environment

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