

**ST-5 USB**

**Technology  
you can count on!**



**M VISION**

# SPECIFICATIONS

## I. Conditional Access Interface

SMART CARD	1 Slot ISO 7816, GSM11.11 and EMV (payment systems) compatibility
PCMCIA	1 Slot.type I or type II DVB Common Interface Standard (Viaccess, Irdeto, NagraVision, Conax, Cryptoworks, AlpaCrypt ..)

## II. Tuner & Channel(DVB-S)

Type	1 ×F Type, IEC169-24, Female
Frequency Range	950MHz to 2150MHz
RF Impedance	75 Ohm unbalanced
Signal Level	-65 to -25 dBm
LNB Power	13.5/18.5Vdc +/- 5%, 0.5Amax, Overload Protected
22KHz Tone	Frequency : 22KHz +/- 2KHz, 0.6Vpp +/- 0.2V
DiSeqC Control	Version1.0, 1.2, Tone burst A/B
Demodulation	QPSK
Input Symbol Rate	2~45 Ms/s, SCPC/MCPC
FEC Decoder	Convolution Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8 With Constraint Length K = 7

## III. Tuner & Channel(DVB-T)

Type	IEC60169-2(VHF/UHF) female, 75W nominal
Frequency Range	VHF: 170MHz to 230MHz UHF: 470MHz to 862MHz
Signal Level	-78.5dBm ~ -25dBm (64QAM, Code Rate 2/3, Guard Interval 1/8,Gaussian Channel)
COFDM Spectrum	COFDM 2K/8K-Carrier
FEC Mode	1/2, 2/3, 3/4, 5/6, 7/8

## IV. System & Memory

Main Processor	32-bit ARM946 RISC Processor
Flash Memory	2 Mbytes
System Memory	32 Mbytes
Channel Capacity	Digital Channel: 5,000
Front	5-Keys(Power, CH Up/Down, Vol Up/Down) 4 digit 7-segment Display

## V. MPEG Transport Stream & A/V Decoding

Transport Stream	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Profile Level	MPEG-2 MP@ML
Input Rate	Max. 90Mbit/s
Aspect Ratio	4:3, 16:9, Letter Box
Frame Rate	25Hz for PAL, 30Hz for NTSC
Video Resolution	720x576(PAL), 720x480(NTSC)
Teletext	Through VBI
Audio Decoding	MPEG/MusiCam Layer I & II
Audio Mode	Single Channel/Dual Channel Joint Stereo/Stereo
Frequency Response	20~20kHz, <math>\pm</math>-2dB 60Hz ~ 18kHz <math>\pm</math>- 0.5dB
Sampling Rate	32, 44.1, 48KHz

## VI. A/V & Date In/Out

TV SCART Output	RGB, CVBS, Y/C(S-Video) Video Output Audio L/R Output with Volume control
VCR Scart In/Out	RGB, CVBS, Audio L/R In / CVBS, L, R Out
RCA Output	CVBS, L, R Output(Yellow, White, Red Jack) with Volume Control
Data Interface	· RS-232, Bit Rate: 115,200baud Connector: 9-pin D-sub Male type · Ethernet : 10/100Mbps, DHCP Supporting · USB : USB 2.0, Type A Connector

## VII. RF Modulator

RF-Connector	75 ohm IEC 169-2, Male/Female
Frequency	470MHz to 860MHz
Output Channel	CH21 ~ 69 for the Remodulator
TV Standard	PAL G/I/K Selectable by Menu Setting
Audio Output	Mono with Volume Control
Preset Channel	CH 38(or TBD). Software changeable by Menu Screen

## VIII. Power Supply

Input Voltage	AC 90V ~ 250V, 50Hz ~ 60Hz
Power Consumption	Max 35W
Standby Power Consumption	<math>\leq</math> 6.5W
Protection	Separate Internal Fuse The input shall the lighting protection

## IX. Physical Specification

Size(WxHxD)	290mm x 50mm x220mm
Weight	2.0 KG

## X. Environmental Condition

Operating Temperature	0 °ΔC ~ 40 °ΔC
Storage Temperature	-10 °ΔC ~ 50 °ΔC
Operating Humidity Range	10~85% RH, Non-condensing
Storage Humidity Range	5~90% RH, Non-condensing



## ST-5 USB

- MPEG-II Digital & Fully DVB-S Compliant.
- 1 Slot smart card.
- 1 slot Common Interface.
- Satellite & Terrestrial combo receiver.
- C/KU band control for each antenna.
- LNB Tone Switch 22KHz mode on/off.
- Multi-LNB controlled by DiSeqC 1.0, 1.2 and USALS.
- Total 5,000 Channels Programmable.
- Blind scan(Power Scan) & Powerful EPG.
- PIG(Picture In Graphic).
- Teletext and subtitle directly from the OSD.
- EPG(Provider Electronic Program Guide) for On Screen Channel Information.
- On-Screen Display with 65,536 Color.
- Dolby Digital Bitstream Out through S/PDIF.
- Upgrade Software & Update Channel Database through USB Port and RS232.
- PVR Ready via USB.
- Recorded file play on PC.