

DIGITAL SATELLITE RECEIVER WITH DUAL TUNER /
COMMON INTERFACE AND HDD INTEGRATED

1. Tuner & Channel

Input Connector	2 X F type with loop through
Output Connector	2 X F type 75Ohm
Frequency Range	950MHz to 2150MHz
Input Impedance	75 Ohm
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 - 45Msps
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 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

Flash Memory	up to 4 Mbytes (Default 2M bytes)
Program DRAM	16 Mbytes
EEPROM	16 Mbytes

4. A/V & Data In/Out

SCART	TV x 1, VCR x 1
RGB video out	TV SCART x 1
0/12V out	RCA x 1
CVBS video out	RCA x 1, SCART x 2 (TV, VCR)
S-VHS out	Mini-Din x 1
S/PDIF	RCA x 1
Analog audio out	RCA x 2 (L-CH x 1, R-CH x 1)
Data interface	Resolution 16bit DAC Output Level 2Vrms Max Volume & mute control RS232C, Baud Rate 9600 ~ 115200, 9 Pin D-Sub

5. System

Main Processor	225 MIPS
Operation System	VX Works

6. Environment

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

7. Storage

Capacity	40GB for A/V purpose
Interface	IDE
Protocol	ATA / ATAPI-5
Data Read/Write	Ultra DMA

8. Recording Options

HDD Spin	Always on, Sleep
Pause time	15min, 30min
Instant replay time	7 secs
Quick Skip time	30 secs
EPG & Ancillary data recording space	200MB
MP3 audio recording space	1GB

9. Key functions

Pause	up to 30min
Record	instant record
Fast forward/reverse	multiple rate
Slow motion forward/reverse	multiple rate
Frame by Frame forward/reverse	supported
Random search	supported
Instant replay/Quick Skip	supported

10. USB interface

Connector Type	Serial A
USB Driver	Ver 1.1
Data Rate	1.2Mbps Max

11. PCMCIA

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

12. RF-Modulator

RF-connect	75 Ohm, IEC169-2, male/female
Output Frequency	470MHz to 860MHz
Output channel	Ch21 - 69
TV standard	PAL D/K, PAL B/G , PAL I

13. Power supply

Input voltage	AC90 ~ 240, 50/60Hz
Type	SMPS
Power consumption	50W Max (Below 7W for stand-by mode)
Protection	Separate Internal Fuses and Chassis Grounding The Input shall have lightning or Electric Shock Protection

14. Physical specification

Size (W x H x D)	370 mm x 60 mm x 280 mm
Weight	about 3Kg