

INNOVATION HD Satellite Receiver



2 Embedded, 2 CI, USB PVR

Features :

- * **DVB S and DVB S2 compliant**
- * **MPEG2 MP@HL video decoder**
- * **MPEG4 AVC/H.264 HP@L4 video decoder**
- * **High Definition and Standard definition**
- * **Multiple Output Resolution modes : 1080i, 720p, 576p, 576i**
- * **Conax 7 & X- Crypt CAS Embedded**
- * **Channel Memory 10,000 (TV : 7000CH, RADIO : 3,000CH)**
- * **Dolby Digital Decoder**
- * **Plays Audio Directly From a USB Memory**
- * **Display Signal Strength Meter for Easy initial Setup**
- * **Channel Default Load Function (Astra, HotBird, Turkey, Astra 2A)**
- * **PVR Ready via External Mass Storage (USB Memory, HDD)**
- * **HDMI Output**
- * **PCMCIA Interface (2 slots) according to DVB common Interface Standard**
- * **2 Smart Card Interface**
- * **DISEqC 1.0, 1.1 & 1.2, USALS Control Technology**
- * **channel Backup function**
- * **Volume Control (32 Steps)**
- * **PVR Function**
 - **Direct recording**
 - **Timer recording**
 - **Format**
 - **Fast forward(x2, x4, x8)**
 - **Fast rewind(x2, x4, x8)**
 - **Slow(x1/2, x1/4, x1/8)**
 - **Time shifting**
 - **Bookmark function**
- * **JPEG Display**

Technical Specifications

Tuner & Demodulator

Input Connector	F-Type, IEC 169-24, Female
Input Frequency Range	950MHz ~ 2150MHz
RF Input Signal Level	-65dbm ~ -25dbm
	Vertical : +12V ~ +14V
	Horizontal : +17V ~ +19V
	Current : Max.500mA(Overload protection)
22KHz Tone	Frequency : 22KHz, +/-4KHz
	Amplitude : 0.6V, +/-0.2V
DiSEqC Control	DiSEqC1.0, 1.1, 1.2, USALS compatible
Demodulation	QPSK, 8PSK
Input Symbol Rate	DVB S : 2~45Ms/s
	DVB S2 : 10~30Ms/s
FEC Code Rate	DVB S : 1/2, 2/3, 3/4, 5/6, 7/8
	DVB S2 : 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10(QPSK)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK)

MPEG Transport Stream A/V Decoding

Transport Stream	According to ISO / IEC 13818-1
Video Resolution	1920x 1080i, 1280x720p, 720x576p, 720x576i
Input Rate	Max. 15MB/s
Video	MPEG2 MP@HL, MPEG AVC/H.264 HP@L4
Audio	ISO / IEC 13818-3 Layer I & II
Audio Mode	Single/Dual Channel
Audio Sampling Frequency	32 / 44.1 / 48KHz

Main System

Main Processor	STi7100
Graphic(MPEG) & System Memory	64Mbytes + 64Mbytes
Flash Memory	8Mbytes
EEPROM	8Kbytes

A/V Data Input/Output

Video	TV-Scart(CVBS out, S-Video out) VCR-Scart(CVBS in/out, RGB in) RCA Jack(CVBS out), Component Jack(YPbPr out) Mini Din Jack(S-Video out)
Audio	TV-Scart(L/R out), VCR-Scart(L/R in/out) RCA Jack(L/R out, Digital audio out) Optical Jack(Digital audio out)
Digital A/V Output	HDMI Digital A/V Output
Serial Port	Transfer Rate 115200bps
USB A type	USB 2.0 HOST (Selectable one of Front or Rear)

Front Panel

KEYS (8 Button)	AC Power, Ch Up/Down, Volume Up/Down, Menu, OK, Back
VFD (10 Digit Alpha Numaric)	Channel Numbers, Names and Time
PCMCIA	2Slot Common Interface
USB 2.0 Host	USB A type Connector

Power Supply

Input Power Voltage	AC 95 ~ 250V, 50/60Hz
Type	SMPS
Power Consumption	Running Max 40 watts

Physical Specification

Dimension (W x D x H)	340 x 230 x 65 mm
Weight	2.7 kg
Operating Temperature	0 ~ 40 degree
Storage Temperature	-20 ~ 60 degree