

Professional Satellite Receiver

Description



PRO RX S2



PRO RX S2 In 1+1 configuration

The PRO RX S2 is a DVB-S/S2 receiver with up to three ASI outputs designed for the primary distribution of mobile and/or terrestrial television over satellite. Operating in compliance with the DVB-S2 standard, the PRO RX S2 is capable of demodulating multiple MPEG transport stream in multi-stream mode: once received the input multi-stream, the transport streams are separated again based on their DVB-S2 Input Stream Identifier (ISI), then the desired services are descrambled by a CAM (Smart Card – common interface) modules with commonly adopted CAS in the market. With ASI and IP interfaces for input and output, PRO_RX_SAT 2 can be integrated into any head end systems for content delivery and re-distribution. (Professional Satellite Receiver, DVB S2 Professional Receiver).

Main Features

RF Input

Connector used as input to the systems

- N° input: 1 for each receiver board
- Connector type: LNB (female)
- R input: 75 Ω
- V input: 1.75 V
- Frequency: 950 to 2150 MHz
- DVB-S (ETSI EN 300 421)
- DVB-S2 (ETSI EN 302 307)

1 x Common Interface (for each receiver)

Connector used as input CAM

- Connector type: PCMCIA
- DVB-CI EN 50221-1997

1 x FastEthernet (Management)

- Connector: RJ45
- Standard supported: IEEE 802.3

3 x ASI Output (same content) / 6 x ASI Output (1+1 or 2+0 configuration)

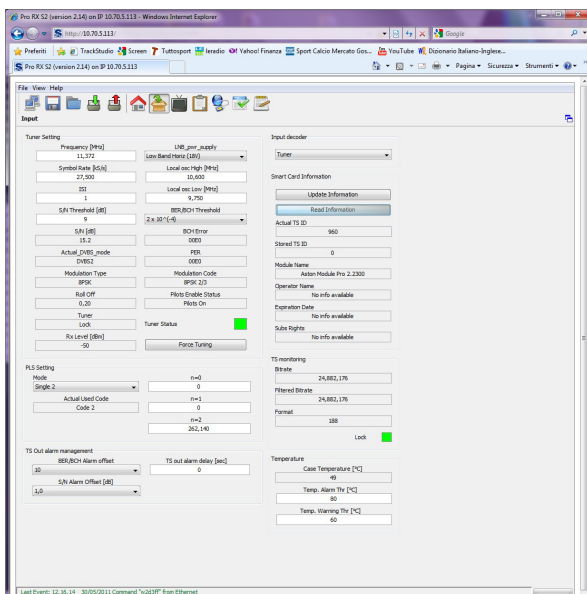
- TS Descrambled (TSD)
- Connector type: BNC
- Input: 75 ohm, 800 mVpp (500 to 1200mVpp)
- MPEG-2 TS ISO/IEC 13818-1
- CEI EN 50083-9,

Management of the devices is made through:

- Java GUI on Ethernet connection.
- SNMP agent.

Power Supply

- Dual Power Supply (only in 1+1 or 2+0 configuration)
- 110/220V AC Auto Switching
- 48V DC (Option on Request)



JAVA INTERFACE



SATELLITE RECEIVER DESCRIPTION		
Tuner		
Frequency range	950 to 2150 MHz	
Supported Standard	DVB-S EN 300 421 v1.1.2: Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for 11/12 GHz satellite services DVB-S2 EN 302 307 v1.1.2: Digital Video Broadcasting (DVB); Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband Satellite applications	
Input Sat RF		
Tuning Setting	Frequency	
	Symbol Rate	
	ISI	
	S/N Threshold	
	LNB_pwr_supply	
	Local osc Low	
	BER/BCH Threshold	
	Force Tuning	
	Actual_DVBS_mode	
	Modulation Code	
Monitoring	Modulation Type	
	Pilots Enable Status	
	Rx Level [dBm]	
	S/N [dB]	
	Tuner Lock Flag	
	Error Values	
	DVB-S Demodulator Features	
	Setting Demodulator	QPSK
FEC: 1/2, 2/3, 3/4, 5/6, 7/8		
Broadcast operating range 45 MSymbols/s		
Automatic configurations monitoring	CCM	
	Modulation type	
	Filter roll-off	
	Pilot presence (on/off)	
	Long frames only	
	Forward error correction	
	Viterbi and Reed-Solomon dual decoder	
	Error monitoring	
Demodulator Features DVB- S2		
Setting Demodulator	FEC QPSK: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10	
	B. FEC 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10	
	FEC 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10	
	FEC 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10	
	FECFRAME: both normal and short	
	Broadcast operating range from 1 to 67 MSymb/s	
	CCM, VCM and ACM	
Automatic configurations monitoring	Modulation type	
	Filter roll-off	
	Pilot presence (on/off)	
	Long frames only	
	Forward error correction	
	LDPC + BCH dual decoder	
	Error monitoring	

Physical layer scrambling	
Adjustable parameters	Mode
	First Physical Layer Scrambling sequence
	Second Physical Layer Scrambling sequence
Monitoring	Third Physical Layer Scrambling sequence
	Actual Used Code
DVB descrambler	DVB
	TSD (TS Descrambled) output interface
	Descrambler - max 12 Services
	Encryption systems supported: all mayors CA suppliers
Cam Reader	CAM supported: all mayors CA suppliers
	Smart Card Information
	Read Information
	Actual TS ID
	Stored TS ID
	Module Name
	Operator Name
	Expiration Date
	Subs Rights
	Services Informations
Information	
Service Name	
Service ID	
Video PID	
Audio PID	
PCR PID	
TTX PID	
TS Out	Output TS Monitoring
	Bitrate
	Filtered Bitrate
	Format
	Lock
BB Frame and T2 MI out supported	

ALARM MANAGMENT

Tuner unlocked	
CAM presence	
Smart Card presence	
Rights Absence	
TS Id changed	
Decrypt error	
Hardware	
Temperature High	
Temperature Warning	
S/N Alarm	
BER/PER Alarm	
PS1 Voltage low	
PS2 Voltage low	
32 bit alarms available	
Alarm Matrix Management	Alarm notification
	Alarm notification via Java GUI
	LED alarm on the front panel
	Enable logging event alarm
	SNMP trap
Event Log	Disable Mask TS out for alarm
	SNMP v1