

CE DVB WTA MEMBER



48 YEARS OF INNOVATION

MAIN FEATURES

There are several versions for the RSR-100, the SAT version allows the reception of DVB-S/S2 Multistream / S2X signals.

It is provided with ASI & T.S. over IP for the reception of a selected Transport Stream.

It assembles an RS-100 RX SAT module, which is an advanced broadcast satellite receiver board, it has been design to be also easily integrated by TV DVB-T2 transmitters manufacturers.

The receiver has three LAN ports, one on the front and one on the rear, to control/manage the unit and a third one to decapsulate a T.S. over IP.

On the rear there are three XLR connectors available for the 2 balanced audio outputs and for the AES / EBU output. On the DB9 connector there is the output of all data relevant to RDS.

The receiver supplies a set of alarms on input and output signals with settable thresholds.

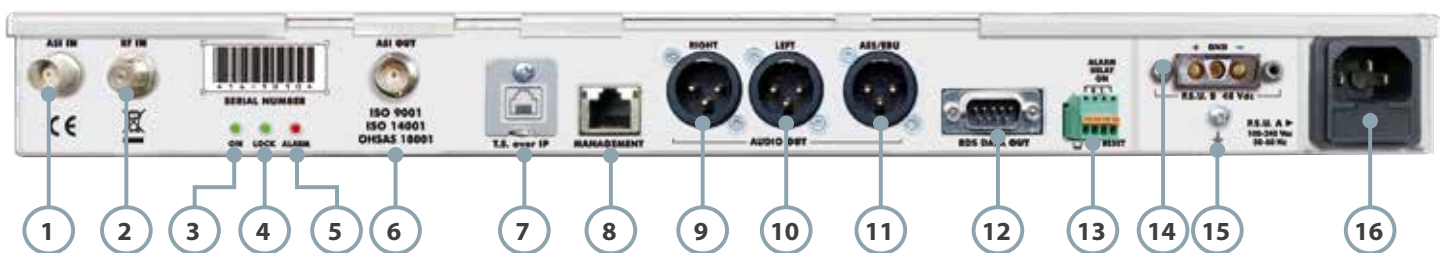
All alarms trigger different type of signaling: by means of LEDs, enabling physical contacts (opt.) and sending TRAPS in SNMP.

FRONT PANEL



- | | |
|--|---|
| 1. HOT-SWAP PSU and cooling vents | 4. Red LED in case of alarm |
| 2. Power on green LED | 5. LAN connector for control/management |
| 3. Green/Red LED for Locking signal status | |

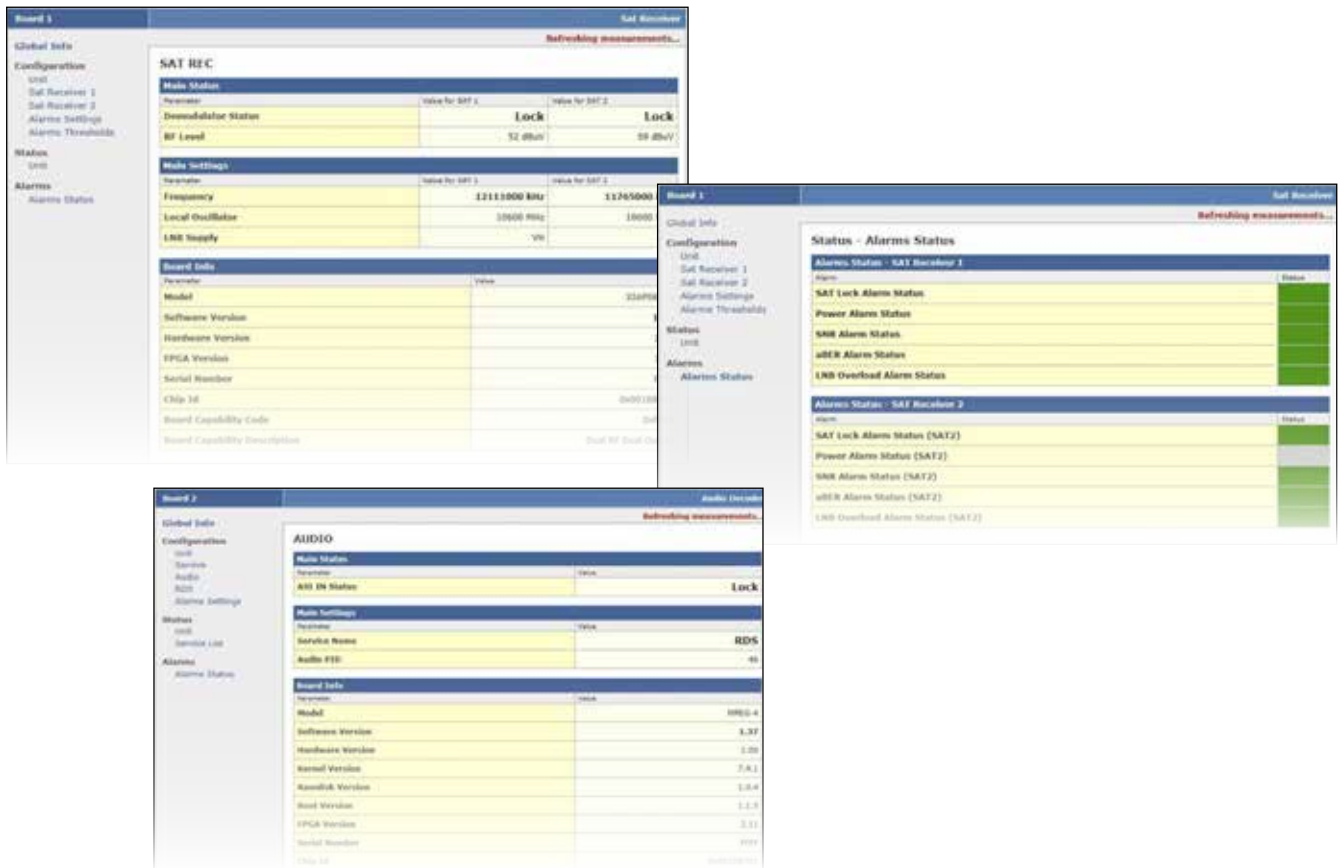
REAR PANEL



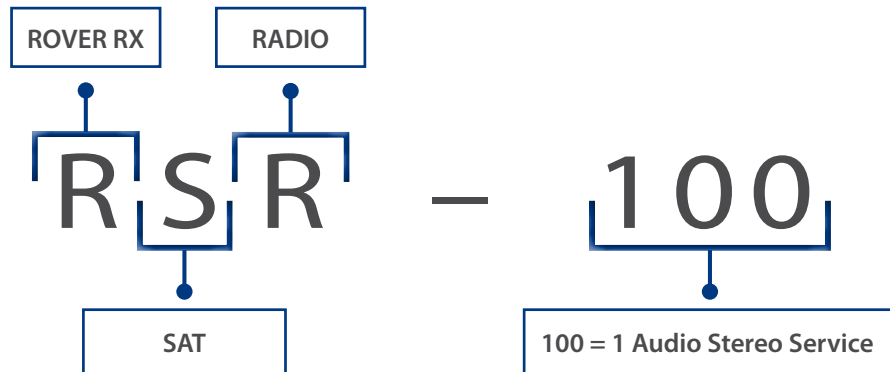
- | | |
|---|--|
| 1. ASI "BNC" 75 ohm Input | 9. XLR "R" balanced audio output |
| 2. SAT "F" 75 ohm Input | 10. XLR "L" balanced audio output |
| 3. Power on green LED | 11. XLR AES / EBU output |
| 4. Green/Red LED for locking signal status | 12. "RDS" data output |
| 5. Red LED in case of alarm | 13. Physical alarm contacts (opt.) |
| 6. ASI "BNC" 75 ohm Output | 14. P.S.U. B 48 Vdc Input |
| 7. LAN connector for T.S. over IP decapsulation | 15. Grounding screw contact |
| 8. LAN connector for control/management | 16. PSU A 230 V power supply (48 V opt.) |

PARAMETERS	SPECIFICATIONS
Standards	
DVB-S/S2 ETS300421 (QPSK), EN302307 (QPSK, 8PSK, 16APSK), EN50083-9	
Demodulation (QPSK, 8PSK, 16APSK)	
Constellation	QPSK, 8PSK, 16APSK
DVBS2 Mode	VCM, CCM, Multi and single TS, Normal & Short FEC frames (16200 bit – 64800 bit)
Symbol Rate	1- 45 Msymb/s (DVB-S), 2- 45 Msymb/s (DVB-S2)
Demodulation	Demodulates all combinations for constellation and FEC provided by the standard , with piloy-on and roll-off of 0,20% and 0,35%
Bit rate	Max 96.88 Mbit/s
FEC	Auto, all ratios compliant with standards
FEC Block	Short and Normal
Roll–Off	20 % - 25 % - 35 %
DVB–S Block linear code (outer code)	R/S 204, 188
DVB–S2 Block linear code (outer code)	BCH, LDPC
Frequency	programmable with 1 MHz steps from 10700 Mhz to 12750 Mhz
RF Input	
Connector	1 x “F” (75 ohm)
Input attenuator	Adjustable with 1 dB steps from 0 to 10 dB
Frequency	950–2.150 MHz
Input level	From -65 dBm to -30 dBm
Return loss	Better then 10 dB
Noise figure	Better then 15 dB
Image Frequency rejection	Better then 40 dB
PLS	settable between 0 and 262141
ISI	settable between 1 and 32
Tensione e gestione LNB	0-13-18 V and 0-22 kHz tone
ASI / IP Input	
ASI	1 x BNC (75 ohm), according to CENELEC EN 50083-9 standard
Ethernet 10/100/1000 base T	TS over IP decapsulating input
Audio & RDS Output	
L & R balanced stereo audio	2 x XLR
AES/EBU digital audio	1 x XLR
RDS (UECP)	1 x DB9 RS232
Remote/local management	
Ethernet 10/100/1000 base T	1 x local control (front), 1 x remote control (rear)
HTTP & SNMP	
Alarms	
LED on device, physical relay (opt.), SNMP	
General	
Power Supply	redundant 230 VAC power supply (48 V opt.)
LNB voltage	0-13-18 V, 0-22 kHz tone
Operting temperature	0 - 45° C, up to 95% non-condensed humidity
Size	19”W x 17” D x 1,75” H (483 x 432 x 44,5 mm)
Weight	4,0 Kg approx.

USER INTERFACE



MODEL DESCRIPTION AND ORDERING CODE COMBINATIONS



V.4 14-1-20



Product
made in Italy by
Rover Broadcast.com

CERTIFICATES N°
1263 ISO 9001
1264 ISO 14001
1265 ISO 45001



Specifications and features are subject to change without notice.

RO.VE.R. Laboratories S.p.A.
Via Parini, 2 - 25019 Sirmione (BS) Italy
info@roverinstruments.com • www.roverbroadcast.com