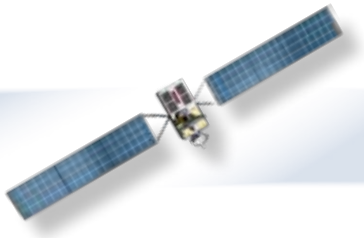
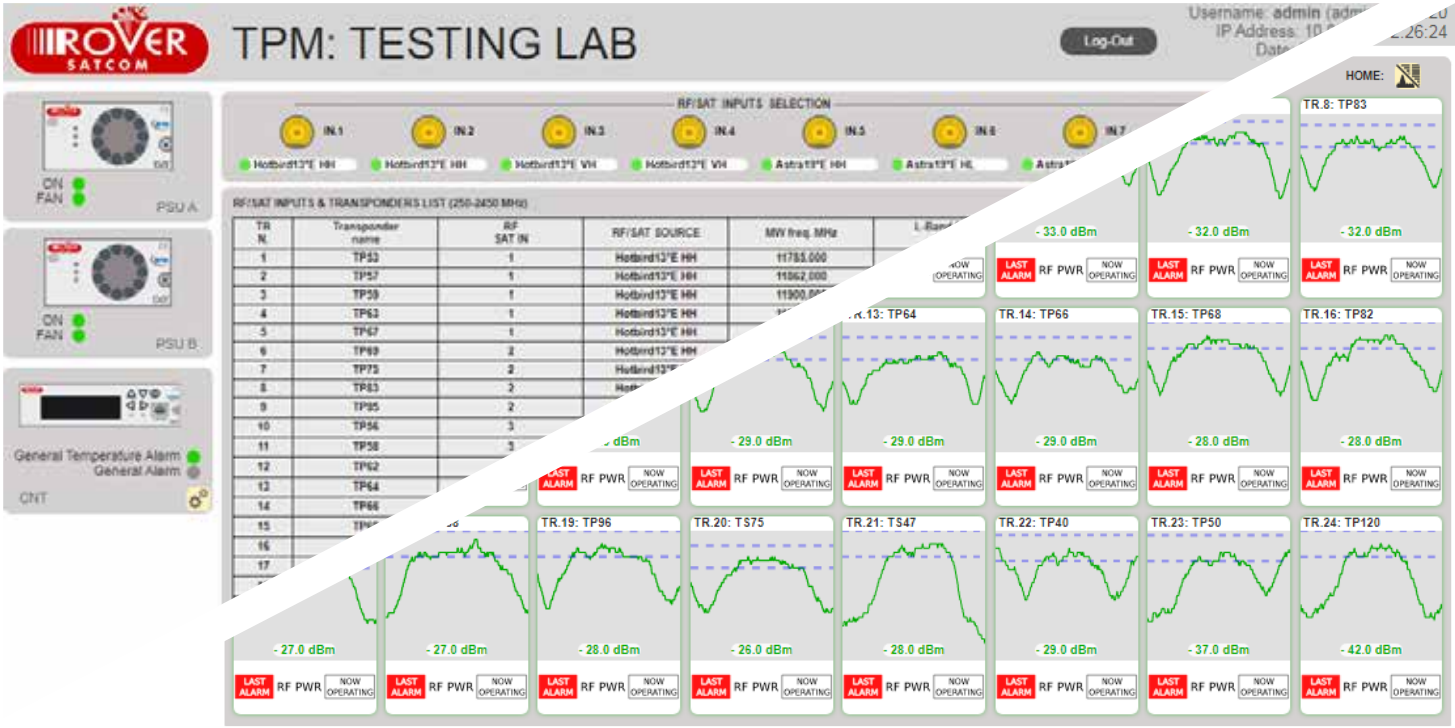
24 TRANSPONDERS POWER & SPECTRUM MONITORING
with BUILT-IN Spectrum & NMS

Transponder Pwr & Spect. Monitoring

mod. TPM-24



- Up to 24 Transponder Simultaneous Monitoring
- Indipendent Spectrum Analyzer for each of 8 Inputs
- Up to RF Input Monitor Ports on the front panel
- Monitoring & control via: local Display, WEB GUI & SNMP



INNOVATIVE PERFORMANCE

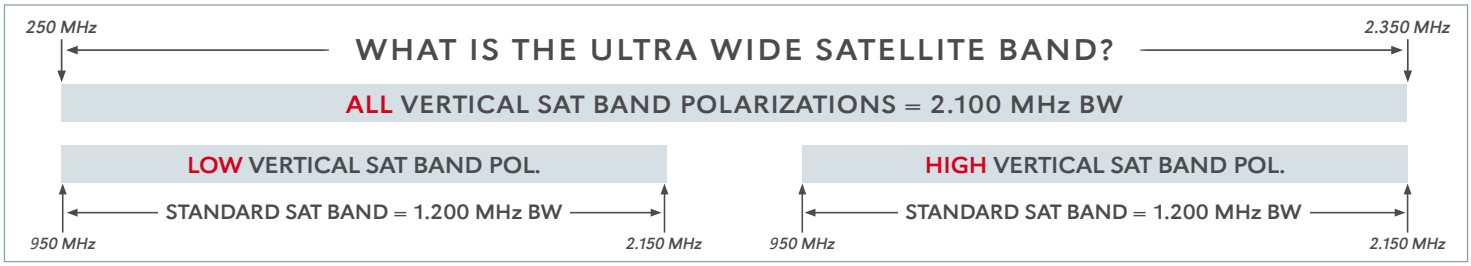
for: SYSTEM INTEGRATOR, TELEPORT BROADCASTER, CABLE NETWORK, GOVERNMENT & MILITARY COMMUNICATIONS

CE DVB WTA MEMBER

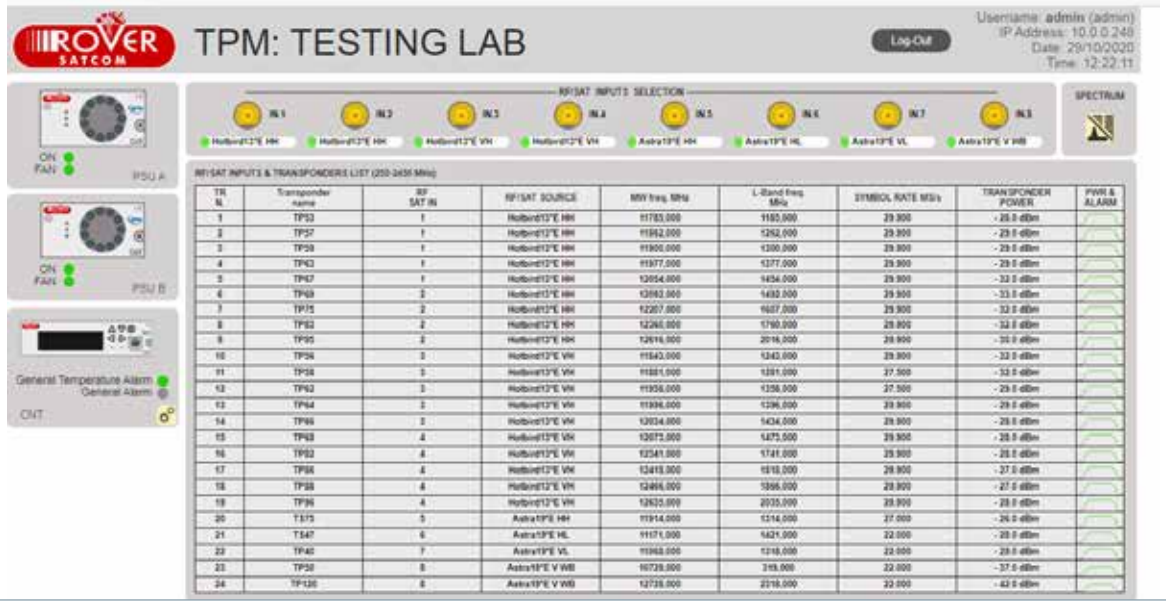
1972 > 2021 >> 49 YEARS OF INNOVATION

MAIN TRANSPONDER MONITORING FUNCTIONS

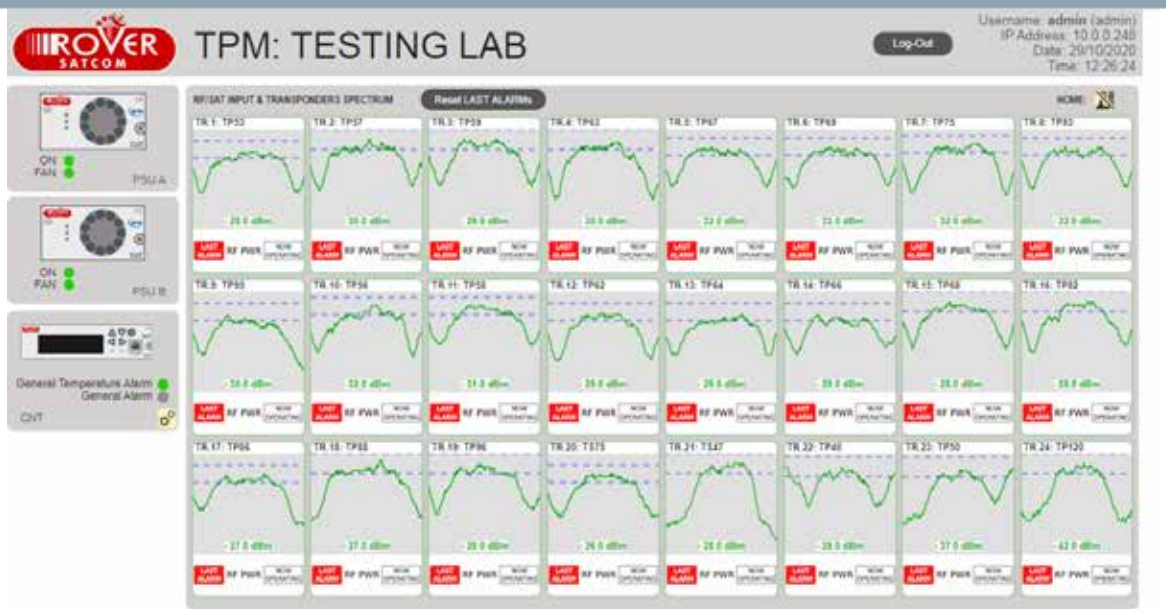
- Up-to 8 Indipendent Inputs for extended SAT Band & TV
- Fully Configurable: Inputs, Frequency, Band Wide & Power alarms
- 8 Indipendent spectrum Analyzer one for each Inputs
- Up-to 24 SAT & TV Transponder Power can be Monitored
- High Input Power dinamic range
- Up-to 8 RF Input Monitor ports on the front panel (opt.)
- Tunable DVB-S/S2-T/T2-C-ISDBT Demod. for ID & Measures
- Up-to 4 full SAT Monitoring with Extended Band LNB
- Fully adjustable Transponder Filter Band Wide from 5 to 65 MHz
- Up-to 8 indipendent LNB powering control, Voltage and Pulse
- Inputs/Outputs Tranpsonder Parameter can be Remotely selected via Web-GUY, SNMP or DCSS protocols
- 2 indipendent Ethernet port and 1 SFP Slot for Control via Fiber
- Monitoring, Control & Alarms via Web-GUY, SNMP
- Monitoring & Alarms via LED, Dry contact & Local Display



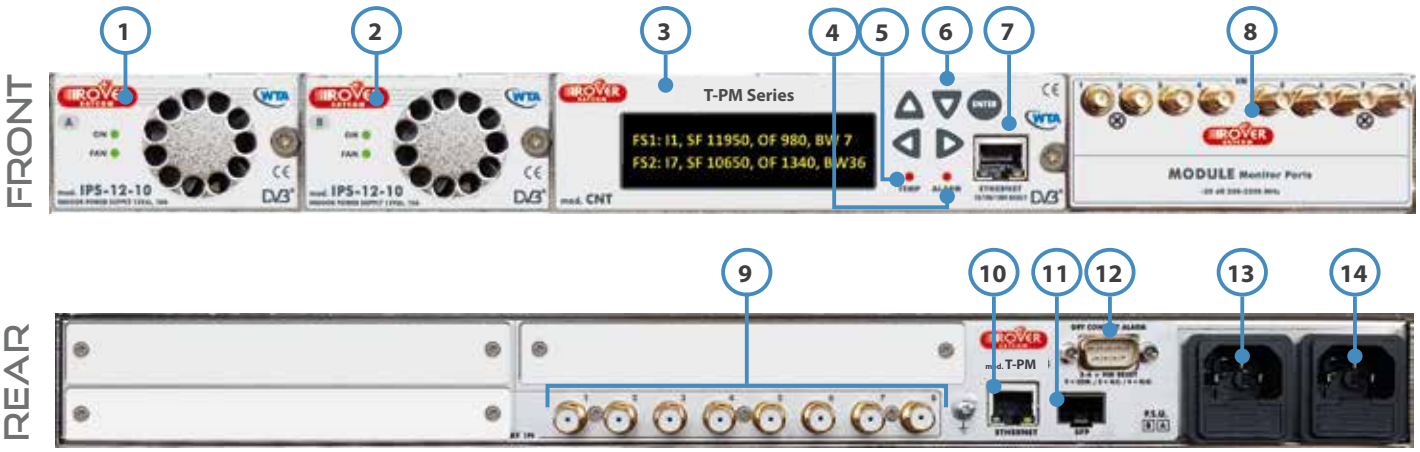
HOME PAGE: 8 RF/SAT INPUT, 24 TRANSPONDERS MEASURE/MONITORING & ALARMS



SPECTRUM PAGE: SIMULTANEOUSLY 24 TRANSPONDERS SPECTRUM & ALARMS



FRONT AND REAR PANELS DESCRIPTION



1/2. Hot Swap Power Supply Unit
3. Hot Swap Control Unit
4. General Alarm LED
5. Temperature Alarm LED
6. Keyboard push button
7. Front Ethernet LAN Port
8. Group 1 RF Input Monitor Ports
9. N. 1 to 8 RF/SAT Inputs (supplied)
10. Rear Ethernet LAN Port
11. SFP, Fiber or Copper Module
12. Dry Contact Alarm & Reset
13. B–PSU Mains Receptacle & Fuse
14. A–PSU Mains Receptacle & Fuse

"TPM" TECHNICAL SPECIFICATIONS

RF PORT CAPACITY:

- **Input port:** N. 8 (supplied) or 16 (opt. factory set)
- **Output port:** N. 1 (supplied) or 4 or 8 or 16 (opt., factory set)
- **Monitor Input port:** 8 or 16 (opt. one each input at -20 dB) SMA(f) 50 ohm (opt., factory set)
- **Monitor Output port:** 1 or 2, SMA(f) 50 ohm (opt., factory set)

OPTICAL PORT CAPACITY:

- **Input port:** N.1, 2 or 3 Optical RX (opt., factory set)
- **Output port:** N.1 Optical TX (opt., factory set)

RF SPECIFICATIONS:

- **Input Frequency range:** 350-2.350 MHz (usable from 250 MHz)
- **Output Frequency range:** 350-2.350 MHz (usable from 250 MHz)
- **Input/Output freq. resolutions:** 1 KHz
- **Input IP3:** +3 dBm Max
- **Input 1 dB comp.:** -7 dBm Max
- **Isolation between input:** 50 dB Max
- **Damage input level:** >10 dBm
- **Input connectors:** F(f) 75 ohm
- **Output connectors:** F(f) 75 ohm or (opt.) N/SMA 50 ohm
- **Input R.L.:** >12 dB (typ. 14 dB)
- **Output R.L.:** >14 dB (typ. 16 dB)

RF LEVEL/POWER SENSING:

- **For each transponder Input:** level for Single Transponder
- **For each transponder Output:** level for Single Transponder

- ***SINGLE TRANSPONDER SPECIFICATIONS:***
- **Transponder Output N.:** 24 for 8 Input or (opt.) 48 for 16 Input
- **Minimum Input Level (per Single Transp.):** -62 dBm, 45 dBµV
- **Max Output Level (per Single Transponder):** -17 dBm, 90 dBµV
- **Adjustable Output Level:** from -57 dBm, to -17 dBm, 50/90 dBµV
- **Total In/Out gain (per Single Tranponder):** >50 dB
- **Gain control (per Single Tranponder):** Selectable, AGC or MGC
- **Noise at 2.350 MHz (per Single Transponder):** 10 dB
- **Transponder Bandwidth filter:** adjustable from 5 to 65 MHz
- **Transponder Bandwidth selection resolution:** 1 KHz
- **Transponder flatness at 30 MHz BW:** 0,5 dB
- **Transponder flatness at 65 MHz BW:** 1,2 dB

INPUT SPECTRUM ANALYZER (opt.):

- **Input N.:** 8 or 16 (factory Set)
- **Span:** selectable from 5 to 2.100 MHz
- **RBW filter:** from 100 KHz to 1 MHz (according SPAN selections)
- **VBW filter:** from 1 KHz to 300 KHz (according SPAN selections)
- **Dynamic range:** > 50 dB

LNB POWERING CONTROL:

- **One for each RF SAT input:** indipendent and C.C. protected
- **DC Voltage:** OFF-13 V-18 V
- **Tone:** OFF-22 KHz

PERIFERALS & CONTROL:

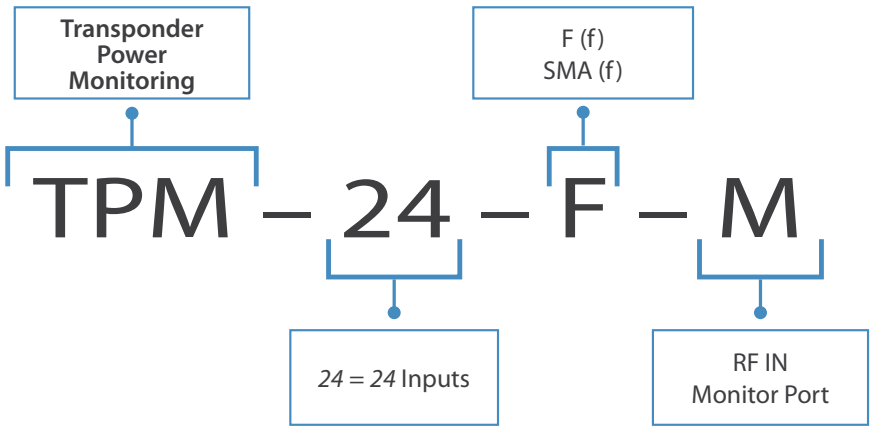
- **Local control:** with display and front LAN port
- **PC control:** via LAN port, through WEB and SNMP
- **Copper Remote control:** via rear LAN port
- **Fiber Remote Control via rear SFP Module**
- **LAN Port:** 10-100-1.000 BASE-T

- ***HOT SWAP REDUNDANT POWER SUPPLY:***
- Hot-Swappable PSU's from the Front
- DC 12 V, 10 A
- 2 AC Receptacles from 2 independent Power Lines
- AC Mains Range = 110 to 240 VAC
- Power Consumption = 35 VA

GENERAL SPECIFICATIONS:

- Size = 1 RU 19", 430 mm deep
- Net Weight = 5 kg
- Safety = EN50083-1 & EN60950
- EMC = EN50083-2
- Env. Conditions = -30°/+55°C (Max 70°C)
- Humidity = Max. 95 %

ORDERING CODE DEFINITION



ORDERING MODEL / CODE EXAMPLE

MODEL / CODE	DESCRIPTION	APPLICATION

OPTIONS

ITEM Model	DESCRIPTION	APPLICATION

ROVER Laboratories and offices

ROVER Goods entrance & production

RoHS

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