



Satellite Transponder Monitor stm3G

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...designed for perfect signals



Selective RF-Power Meter 50MHz – 3GHz

The **RF-Design stm3G** is a high-performance, compact and rack-mountable selective RF power monitoring unit, specifically developed for monitoring the power levels of individual satellite transponders in 3GHz and in the L-band range.

Based on the proven hardware design of the **RF-Design PwrM3G**, this enhanced version adds the capability for precise, selective power tracking of defined carrier frequencies.

Unlike the standard **PwrM3G**, which provides total input power readings, the **stm3G** supports frequency-selective monitoring of individual transponders.

This includes:

- ▶ Carrier-specific threshold alarms
- ▶ Min/Max level tracking
- ▶ True spectrum-based visualization
- ▶ Long-term trace with charting and export



FEATURES & BENEFITS

- ▶ Selective transponder monitoring in the 50–3000 MHz
- ▶ Multi-channel power measurement for up to 30 transponders simultaneously
- ▶ Real-time analysis with individual Min/Max tracking per transponder
- ▶ Spectrum view and bar chart modes for flexible visualization
- ▶ Per-transponder threshold alarms, fully configurable

- ▶ Long-term trace & logging with real-time graphical view and CSV export
- ▶ User interface via Windows application or future web-based UI
- ▶ 1RU/19" chassis with integrated power supply and 4 port Ethernet switch
- ▶ Offset compensation for cables and directional couplers

TECHNICAL SPECIFICATIONS

Dimensions:	125 x 105mm handheld module
Weight:	400g (handheld module)
Power Supply:	12VDC, <6W
Frequency Range:	50 – 3000MHz
Dynamic Range:	80dB (-65dBm to +15dBm)
RF Power Accuracy:	±0.5dB typ., ±1dB max.
Input Connectors:	1 x 50Ohm SMA(f)
Damage Power Level:	+20dBm
Display Modes:	Spectrum View, Bar Chart View
Alarm Handling:	Per transponder, threshold-configurable
Logging/Tracing:	Time-based, per transponder, CSV format
Remote Configuration:	RJ45 100Mbit Ethernet-Interface (WebGUI, SNMP, UDP)
Operating Temperature:	-20°C to 45°C
Storage Temperature:	-20°C to 70°C
Humidity:	90%, non-condensing
RoHS:	Compliant

ORDER INFORMATION

Type	Type-No.:	Short Description	Input Connectors
stm3G	9001481	satellite transponder monitor stm3G	50Ohm SMA(f)
PwrM-4Slot-Chassis	9001032	1RU/19" rackmount chassis, 4 slots for max. 4 x PwrMxG dual RF power meter or stm3G, integrated swappable power supply, integrated 4:1 Ethernet network switch, 280mm deep	n.A.
PwrMxG-PSA12V	9001067	Power Supply Adapter AC-90-230V, DC12V3A	n.A.