

SmartSAT's family of satellite simulators set the standard for UHF SATCOM test equipment. Rugged, reliable, and easy to use, SATSIM accurately simulates satellite channel and propagation characteristics, enabling users to test radio performance, troubleshoot communication systems and train personnel.

An essential component of every well-equipped SATCOM testing and training facility, the Briefcase SATSIM provides the same simulation capability of a standard one-channel SATSIM with the addition of several features to facilitate mobile operation. These additional features include a three-hour battery, external reference control via the removable touch screen interface, and a ruggedized case.

All other functions of the Briefcase SATSIM are configured in the same way as any standard rack-mount SATSIM model. Lightweight, portable, and AC or battery powered, the Briefcase SATSIM is truly the perfect option for field, flight line, and other mobile applications.

FEATURES

- · Programmable attenuators
- Intuitive touch screen interface
- External reference capability
- External reference tuning port
- 3-hour battery operation
- USB remote control port
- One year warranty

Briefcase SATSIM USS-101-002A



BRIEFCASE SATSIM DATA SHEET

HIGHLIGHTS

SATSIM is the ideal device to deploy in test labs or in the field for evaluating and troubleshooting critical UHF SATCOM transceivers and receive-only terminals.

This versatile test set:

- allows the user to quickly determine if a radio or SATCOM system is operating to specification.
- includes built-in independent synthesizers enabling the selection of any up or downlink frequency.
- provides total control of receive signal level, noise power, and signal-to-noise ratio.
- allows the user to determine the impact of platform movement in a laboratory environment utilizing a built-in Doppler generator.
- provides a wide range of time delay selections for testing network timing.
- provides accurate simulation of UHF satellite channel characteristics.

SYSTEM INTEROPERATBILTY

SATSIM simulates the hard limiting narrowband filtering (5 and 25 kHz) characteristics of all UHF satellites, including:

AFSATCOM LEASAT Intelsat 22 UFO (IS-22) MUOS Skynet 5

SATSIM is an excellent test aid for all common UHF SATCOM systems, such as:

Integrated Waveform (CIB / IBS-1 / IBS-S)
DAMA
Secure Narrowband Voice

MECHANICAL SPECIFICATIONS

Weight <25 lbs

Size 15" L x 12.13" W x 6.88" D

ELECTRICAL SPECIFICATIONS

Input Voltage 100 – 240 VAC

47 - 66 Hz

Power 15 W Max.

BATTERY SPECIFICATIONS

Type 10-Cell, 12 V, NiMH

Operation up to 3 hours

TEMPERATURE SPECIFICATIONS

Storage -20°C to 30°C

Operating 0°C to +40°C

PERFORMANCE CHARACTERISTICS

Signal Control Range Maximum input -10 dBm

>80 dBm range in 1.0 dB increments

Noise Source

Internal white noise generator >62 dB range in 0.5 dB increments

Doppler Generator

0 to ±5 kHz

Programmable to user profile Rate of change to 100 Hz/sec

Time Delay

0 to 300 msec

Programmable to users' parameters

