



TTG-3000 NEXTGEN RF GENERATOR

The TTG-3000 is a RF Signal Generator designed to simulate multiple Avionics L-Band signals (UAT, ADS-B, ATCRBS, and Mode S).

The TTG-3000 Test Set supplies a 10.4 Inch Touchscreen LCD display for operator control of all test set capabilities. The TTG-3000 can be remotely controlled via either GPIB, Ethernet or USB.

The TTG-3000 Test Set can be used throughout the development cycle, from Engineering hardware and software validation testing to manufacturing tests.



Features:

- Simulates 32 Dynamic/400 Static Intruders
- Two Independent Transmitters
- ADS-B/TIS-B/ADS-R Squitters
- TX Data Logging Capability
- ATCRBS Interrogations/Replies
- Data Parsing in Engineering Units
- UAT Airborne and Ground Link Messages
- USB/GPIB/Ethernet Interface
- Mode S Interrogations/Replies

Transmitter Specifications:

Frequency

Range: 962 – 1213 MHz
Resolution: 100 KHz
Accuracy: +/- 10KHz

Power

Range: 1 to -98 dBm
Resolution: 1 dB
Accuracy: +/- 0.5 dB
Port: 2 Ports

Pulse Modulation

Accuracy: +/- 0.05 uSec
On/Off Ratio: > 80 dB
Rise/Fall Time: Normal (<100 nS)/Slow (600 nS)
External Pulse Modulation

Velocity Simulation

Range: +/-2000 Kt/Hr
Resolution: 1 Kt/Hr
Accuracy: +/- 1 Kt/Hr

Vertical Speed Simulation

Range: +/-32608 Ft/Min
Resolution: 64 Ft/Min
Accuracy: +/- 64 Ft/Min

Altitude Simulation

Range: -1000 to 126700 Feet
Mode: Gilham and 25 Feet
Resolution: 25/100 Feet up-to 50175 Ft
100 Feet above 50175 Ft

Max Reverse Power

+60 dBm (<1% duty cycle)

Software Interface:

Command Set

USB 2.0
Ethernet
GPIB

VNC Server

User Applications (On request)

Front Panel Menus:

Transmitter Screen

Signals: UF Interrogations
DF Replies
ATCRBS Interrogations
ATCRBS Replies
UAT Airborne/Ground Link

Transmit Sequence

Special Transmit Sequences

Dynamic Intruder: 32
Static Intruder: 400

ADS-B Intruder Simulation

Intruder Information Entry:

Range/Bearing/Altitude
Latitude/Longitude/Altitude

Distance Simulation from Receiver Station

Display Screen

Displays Intruders

Interfaces:

Suppression Bus (Front/Back)
I/O Lines (Front/Back)
429 Tx/Rx (Front/Back)
Two Scope BNC Outputs (Front /Back)
LAN (Front/Back)
USB Type B Control (Front)
2 USB Type A (Front) for HID/Flash Drives
6 External Pulse Modulation Inputs (Back)

Physical Characteristics:

Power: 115/230 VAC, 50/60 Hz
Height: 10.5 inches
Width: 19 inches
Depth: 16.5 inches
Weight: 28 lbs



14046 NW 82 Avenue
Miami Lakes, Florida 33016
Phone: (305)556-1957
FAX: (305) 556-6510

ISO 9001-2008
Certified

www.a-tg.com