



# ADVANCED TECHNICAL GROUP

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## 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



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