



# ADVANCED TECHNICAL GROUP

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<http://www.avionteq.com/ATG-TTG-5000-Transponder-RF-Signal-Generator.aspx>

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## TTG-5000 Transponder RF GENERATOR

The TTG-5000 is a RF Signal Generator designed to test mode A/C/S Transponders.

The TTG-5000 Test Set supplies a 10.4 Inch Touchscreen LCD display for operator control of all test set capabilities. The TTG-5000 can be remotely controlled via either GPIB, Ethernet or USB.

The TTG-5000 Test Set can be used throughout the development cycle, from Engineering hardware and software validation testing to manufacturing tests.



### Features:

- Two Independent Transmitters
- Full Diversity Testing Capability
- ATCRBS/Mode S Interrogations
- DO-260/DO-260A/DO-260B Data Parsing
- Two Independent Receivers
- TX/RX Data Logging Capability
- Data Parsing in Engineering Units
- UAT TX/RX Capability (optional)

## 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 (<100nS)/Slow (600 nS)  
External Pulse Modulation

### Max Reverse Power

+60 dBm (<1% duty cycle)

## Software Interface:

Command Set

USB 2.0  
Ethernet  
GPIB

VNC Server

User Applications (On request)

## Receiver Specifications:

VSWR < 1.4

Max Input Power +60 dBm

1090/978 Receiver

Dynamic Range: 40 dB

Dual Receiver: Top/Bottom

## Measurement Specifications:

### Power Measurement

Range: +17 to +57 dBm  
Resolution: 0.1 dBm  
Accuracy: 1 dB

### Frequency Measurement

Resolution: 1KHz  
Accuracy: 1KHz

### Pulse Characteristic Measurement

Resolution: 10 nS

## 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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ISO 9001-2008  
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