

TELEMETRY TEST KIT

Synchronizes with GPS to verify data transmission
over the TESS Telemetry Network



GPS Antenna & Cable

Data Monitoring
& Collection Tablet

Range Test Unit (RTU)

PLAYER CONFIGURATION AND DATA TRANSMISSION

The Telemetry Test Kit (TTK) represents one or more instrumented players on the Tactical Engagement Simulation System (TESS) Telemetry Network. It is used for testing data transmissions prior to integrating aviation platforms in TESS training exercises.

Like other player units, it synchronizes with GPS and the Telemetry Network to test coverage, connectivity and player data transmission. Unlike other player units, it allows for the simulation of other player units by reporting as multiple Player IDs (PIDs) from a single radio.

The TTK includes a Range Test Unit (RTU) that is assigned a PID and is usually installed on a ground vehicle and driven throughout the training range for testing. It connects to either vehicle power through the cigarette lighter or used with any 12 VDC supply using supplied cables. The RTU can support CONUS or OCONUS operations and is packaged with a magnetic mount GPS and Telemetry antenna assembly.

The TTK participates in the same network as the existing player units. Its transmissions are picked up by other players, and the network equipment, to include Remote Relay Unit (RRU) equipped towers, and Modular Mobile Command and Control (MMCC) stations.

The Tablet PC provides immediate feedback of the data being transmitted over the network via its SMODIM Tracking, Analysis and Recording (SMOTAR) software display. It also provides a mechanism for enabling scripts to be selected and sent to the RTU for execution. Testing is intended to be performed prior to using aviation platforms for training exercises.



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