Brochure

VIAVI

Multi-Receiver Test Option

For the ATC-5000NG (ATCNGOPT03)

The Multi-Receiver Test Option provides the capability and corresponding software screens to create scenarios of multiple targets and messages.

These scenarios can be transmitted on up to three different frequencies: 1090 MHz, 1030 MHz and 978 MHz. This allows the user to create scenarios with targets from each frequency band, to test that the multi-receiver can simultaneously receive these messages. The UAT and 1090 messages will be transmitted on the top and bottom ports. The 1030 messages will be transmitted on the selected port.

Multi-Receiver Test Screens

Measurement Screen

Two channel oscilloscope screen with trigger and port selections available.

Measurement Screen

Settings available include: Mode S Address; Latitude; Longitude; Altitude; Heading.

RTCA/DO-260 Test Screen (Option)

See DO-260B MOPS Test Option (ATCNGOPT06) Product Description, document p/n 1020PD-OPT06.

Receiver Screen

Indicators display types of messages being received. Messages can be captured, displayed, and logged in a data file.

The ATC-5000NG NextGen ATC/DME Test Set and ADS-B Target Generator tests the following:

- Transponders (Mode S/ADS-B Out
- ADS-B In receivers
- UAT receivers
- 1090MHz DF18 Emitters (surface vehicles)
- ADS-B In Ground Station Receivers
- ADS-R, TIS-B Ground Station Transmitters
- DMEs

Multi-Receiver Test Screens (continued)

Scenario Screen

Gives user the ability to create scenarios and setup:

- Scenario duration
- 1090 MHz ADS-B dynamic and static targets
- 1030 MHz ground station and TCAS messages
- 978 MHz UAT dynamic and static targets
- Initial MSO for dynamic and static
- Dynamic and static UAT enable
- MSO step dynamic and static UAT

Additional Scenario settings:

- Capture squitters and data logging
- Static test mode
- Slant range
- Re-compile after load
- Power mode
- UAT I/Q filter magnitude
- UAT horizontal spacing

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