Selection Guide

VIAVI
Military Test Solutions
for Radio and Avionics Systems

Improving your operational efficiency with faster on-site test solutions.
3515 Series Portable Radio Test Set

**3515AR Portable Radio Communications Test Set**
NSN: 6625-01-572-6346
- Includes spectrum analyzer, oscilloscope and test script language for automating tests, incorporating test instructions, data collection, etc.
- Test scripts available for radios and systems, including PRC-117F, PRC-148, fixed-wing and rotary-aircraft, vehicles and data radios

**3515N Portable Radio Communications Test Set**
NSN: 6625-01-538-0285
- USMC specific configuration

**3515ARM Airborne Radio Maintenance System**
NSN: 6625-01-617-3401
- 3515AR + rugged transit case + airborne maintenance kit
- Includes VSWR script for rotary aircraft

**3515AR-EP Portable Radio Communications Test Set**
NSN: 6625-01-538-0285
- Includes a test script for EPLRS radio test

**3515LSR Life Support Radio Test System**
- The 3515LSR System is comprised of the combination of the 3515AR PLUS the LSR Kit
  - NSN: 6625-01-572-6346 (3515AR Radio Test Set)
  - NSN: 6625-01-624-2023 (LSR Kit including Cables, Software, and RF Chamber)
- Purchase both NSN items for a complete system, or only the LSR Kit if you already have the 3515AR
- CPIN: 83C-3515ACCESSORYKIT-S001-00A
- T.O. NUMBER: 33A1-3-628-1
- 3515LSR System replaces the RCTS-003B

**3920N Analog/Digital Radio Test Platform**
NSN: 6625-01-583-9945
- 2.7 GHz operation
- DMM, tracking generator, audio analyzer
- P25 test capabilities, including:
  - Conventional mode
  - P25 trunking, including explicit mode
  - AES encryption
  - XTS® and XTL™-3000/5000 AutoTest

**Ground Radio Maintenance Automated Test System (GRMATS)**
GRMATS (AN/USM-718A)
NSN: 6625-01-589-2424
- Automated testing of tactical radios
- 2.6 GHz frequency range
- Next-generation radio testing
**Avionics Test**

**Transponder, Interrogator, DME, TACAN and TCAS Test**

**IFR6015 Flight Line Test Set**
NSNs: 6625-01-578-4893
6625-01-574-2423
6625-01-601-4034*

- Transponder Modes 1,2,3A/C/S, TCAS I, II, E-TCAS and TACAN

*Most current NSN, and is identified on unit serial tag

**IFF-45TS MK XIIA/TACAN Bench Test Set**
NSN: 6625-01-617-2567
(with options 1, 2, 3, 6, 8, & 9)
6625-01-611-6485
(with options 2 & 8)

- DoD AIMS certified for MK XIIA IFF and Mode S performance (Levels 1 and 2)
- DO-260B compliant; ADS-B Out test capability

**IFF-7300S Series Automated Test System**
NSN: 6625-01-622-8238 (IFF-7300S-02)

- Automated return-to-service testing (Level 1)
- Automated module level diagnostics (Level 2)
- Manual mode testing using VIAVI proprietary Virtual Panel application software.

**APM-424(V)5 Interrogator/Transponder MK XIIA Mode 5 Test Set**
NSN: 6625-01-583-2774
(Includes KIV-77/Option B adapter)

- Transponder Test Modes 1, 2, 3/A, C, S (ELS/EHS), 4, Mode 5
- Interrogator Test Modes 1, 2, 3/A, C, S, 4, Mode 5, TCAS, ETCAS
- Shipboard interrogation

**Factory Upgrade Kits**
COMSEC adapters sold separately

<table>
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<th>Fielded Unit</th>
<th>Upgrade To: APM-424(V)5</th>
<th>NSN</th>
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<tr>
<td>APM-424(V)3</td>
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<td>TS-4542/UPM</td>
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**IFR-260B INTEGRITY™ Test Application**
- ADS-B equipment installation verification
- Complete AC 20-165B fast and convenient reporting
- Eliminate post STC operational flights

**Nav/Comm Test**

**IFR4000 Nav/Comm Test Set**
NSN: 6625-01-516-4656

- Tests VOR, ILS, Marker Beacon and VHF/UHF
- ELT software upgrade available*

*NSN: 6625-01-553-1956 with ELT option installed

**IFR4000AR Nav/Comm Test Set**
NSN: 6625-01-559-2384

- Contract#: W58RGZ-09-D-0007
- IFR4000 plus added protective cover
- ELT software upgrade available*

*NSN: 6625-01-553-1956 with ELT option installed
Avionics Test

Fuel Quantity Test

PSD90-1C AC/DC Fuel Capacitance Test Set
NSN: 4920-01-510-5628
(F-16 fleet)¹
4920-01-528-2230
(non F-16 fleet)
• Tests any AC or DC capacitive system*

PSD60-1AF AC Capacitance Fuel Quantity Test Set¹
NSN: 6625-01-297-5305
• Tests any AC capacitive system*
*Aircraft-specific interface cables are required and must be purchased separately.

Radio Altimeter Test

ALT-8015 Military Radio Altimeter Flight Line Test Set¹
NSN: 6625-01-644-1512
• Tests military pulse radio altimeters
• Tests FMCW radio altimeters, including analog CDF types
• Direct-connect to UUT T/R or to installed system via antenna couplers

GPS Satellite Simulation

GPSG-1000 Portable Satellite Simulator¹
NSN: 6625-01-616-2712
(12 channel config)
• GPS signals simulated: L1, L1C, L2C, L5
• Galileo signals simulated: E1, E5, E5a, E5b
• Static and dynamic simulations via NMEA-0183 File Record and Playback
• 12 channel configuration available with upgrade path (RAIM supported)

Antenna Couplers

UC-584 Antenna Coupler Kit²
Reliable FAR Part 43 Appendix ‘F’ ERP and MTL testing in multi-path environments
• Provides >20 dB of isolation
• Available in single and dual coupler kit configurations

F-16 IFF Antenna Coupler Kit²
Eliminates DD-1494 requirement
• Reliable effective radiated power
• Transponder minimum trigger level testing

1: This product is controlled for export under the International Traffic in Arms Regulations (ITAR). A license from the U.S. Department of State is required prior to the export of this product from the United States. This product may not be sold or proposed or offered for sale to certain countries including: Belarus, Burma, China, Cuba, Haiti, Iran, Liberia, Libya, North Korea, Somalia, Syria, Sudan, and Vietnam. See ITAR 126.1 for complete information.

2: This product is subject to the Export Administration (‘EAR’) (15 CFR 730-774) and may not be exported, reexported or otherwise transferred to a foreign person, or outside the United States without authorization from the U.S. Department of Commerce.