VIAVI
VIAVI Solutions

Selection Guide

VIAVI
Military Test Solutions
for Radio and Avionics Systems

Improving your operational efficiency
with faster on-site test solutions.

Radio Test

3515 Series Portable Radio Test Set[1]

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[1]

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)[1]

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[2]
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

APM-424(V)5 Interrogator/ Transponder MK XIIA Mode 5 Test Set[1]
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

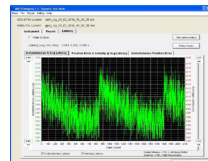### Factory Upgrade Kits[1]
COMSEC adapters sold separately

Fielded Unit	Upgrade To: APM-424(V)5
APM-424(V)3	86738
APM-424(V)4	88573
TS-4530/UPM	86738
TS-4530-1/ UPM	88572
TS-4542/UPM	86738

IFF-45TS MK XIIA/TACAN Bench Test Set[1]
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[1]
NSN: 6625-01-612-8238 (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.

ADS-B 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[2]
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)[2]
4920-01-528-2230
(non F-16 fleet)

- Tests any AC or DC capacitive system*

PSD60-1AF AC Capacitance Fuel Quantity Test Set[2]

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 Set[2]
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 Simulator[2]
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 Kit[2]
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 Kit[2]
Eliminates DD-1494 requirement

- Reliable effective radiated power
- Transponder minimum trigger level testing