

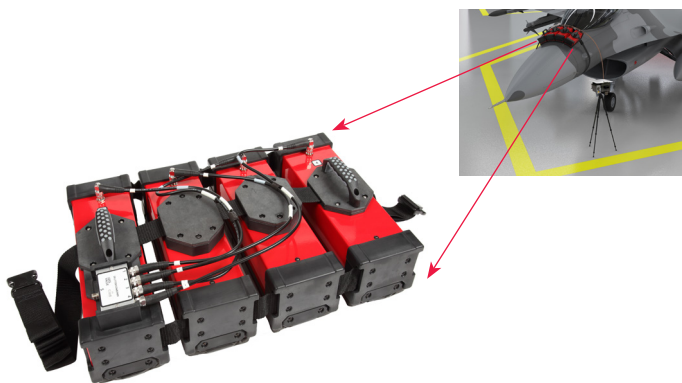
VIAVI

F-16 IFF Coupler Kit

SERD 65530

The F-16 IFF coupler kit solves the problem of over-the-air testing resulting in unreliable radiated power and transponder minimum trigger level testing in multi-path ramp and hangar environments.

The VIAVI F-16 IFF Coupler Kit provides isolated IFF Interrogator and Transponder testing to eliminate the need for DD-1494 frequency authorization. The interrogator coupler mounts over the aircraft's four element interrogator antenna array. The transponder coupler mounts over top and bottom transponder antennas.



Interrogator Coupler



Transponder Couplers

Features

- Interrogator coupler mounts over the aircraft's four element interrogator antenna array
- Transponder coupler mounts over top and bottom transponder antennas
- Interrogator coupler kit supports all blocks of F-16 aircraft
- Transponder coupler kit supports all F-16 blocks (except F-16A/B, blocks 10/20, new kit coming soon)
- Interfaces with most IFF ramp test equipment
- EMI gasketing eliminates stray transmissions and interference

Benefits

- Eliminates DD-1494 requirement
- Reliable effective radiated power
- Transponder minimum trigger level testing

Ordering Information

Versions and Accessories

Order Number	Description
140600	Kit, F-16 IFF Coupler (SERD 65530) Includes: 140596 UC-113 Antenna Coupler 140597 UC-213 Antenna Coupler 140598 UC-223 Antenna Coupler 87431 UC-584 L-Band Coupler 141981 Coaxial Cable, 20 ft. 138331 Tripod 141228 Transit Case 141318 Operation Manual
142508	Kit, F-16 MK X11A IFF Test Includes: 140600 F-16 IFF Coupler Kit (SERD 65530) 91067 APM-424(V)5 MK X11A Flight Line Test Set (SERD 65A06)
The following kit contents are included in kit part number 140600, but may also be purchased as separate kits:	
140582	Kit, F-16 Interrogator Coupler Includes: 140596 UC-113 Antenna Coupler 141981 Coaxial Cable, 20 ft. 140903 Transit Case (not included in kit p/n 140600)
140622	Kit, F-16 Transponder Coupler Includes: 140597 UC-213 Antenna Coupler 140598 UC-223 Antenna Coupler 87431 UC-584 L-Band Coupler 141981 Coaxial Cable, 20 ft. 140904 Transit Case (not included in kit p/n 140600)



F-16 IFF Coupler Kit, p/n 140600

General Specification

Frequency	1030 and 1090 MHz
Coupler Loss	UC-113: 12.4 dB typical UC-213/UC-223: 5.0 dB typical UC-584: 0.6 dB typical
Isolation	> 20 dB typical
VSWR	< 2.5:1
Connector	TNC Female

Environmental

Operating Temp	-20° to +55° C (-4° to 131° F)
Storage Temp	-67° to +85° C (-4° to 185° F)

Physical Characteristics

F-16 IFF Coupler Kit, p/n 140600 (includes transit case)	
Dimensions	31.3 in x 20.4 in x 15.5 in 79.5 cm x 51.8 cm x 39.4 cm
Weight	60 lbs (27.2 kg), transit case w/ accessories 6.75 lbs (3.0 kg), tripod (shipped separately)
UC-113 Interrogator Coupler, p/n 140596	
Dimensions	25.4 in x 6.3 in x 15.8 in 64.5 cm x 16.0 cm x 40.1 cm
Weight	15 lbs (6.8 kg)
UC-213 Transponder Coupler, p/n 140597	
Dimensions	5.57 in x 11.86 in x 18.85 in 14.14 cm x 30.12 cm x 47.9 cm
Weight	6 lbs (2.72 kg)
UC-223 Transponder Coupler, p/n 140598	
Dimensions	5.57 in x 10.72 in x 12.03 in 14.14 cm x 27.22 cm x 30.5 cm
Weight	6 lbs (2.72 kg)
UC-584 Universal Transponder Coupler, p/n 87431	
Dimensions	5.75 in x 5.25 in x 8.25 in 14.6 cm x 13.3 cm x 20.9 cm
Weight	2 lbs (0.9 kg)

Note: For p/n 91067 APM-424(V)5 weight and dimensions, see APM-424(V)5 Product Brief.

Export Control and Warning

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Contact Us +1 316 522 4981
avcomm.sales@viavisolutions.com

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viavisolutions.com/contact.

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