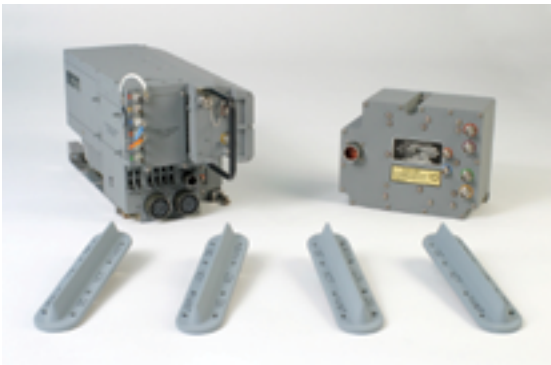


F-15 CIT

Combined Interrogator/Transponder



The F-15 combined interrogator/transponder is a versatile Identification Friend or Foe (IFF) system developed specifically to replace legacy air-to-air interrogator and IFF systems on all F-15 models.

Description

Production configurations are available to operate with legacy mechanically scanned interrogator antennas or supplied with an electronically scanned interrogator antenna subsystem. The F-15 CIT includes Mode S elementary and enhanced surveillance (ELS and EHS) capability and has an AIMS-approved Mode 5 growth path, ensuring that the F-15 CIT will be as capable tomorrow as it is today.

Features and/or benefits

- Complete Mark XII identification system (including KIV-6 crypto computer) in one unit
- DoD AIMS-certified
- STANAG 4193-compliant
- Includes Mode S, Level 3 (ELS and EHS)
- Multiple antenna configurations (electronic or mechanical scan)
- Dual redundant MIL-STD-1553 bus interface
- Mode 5 growth path proven with AN/APX-126 F-16 CIT

Specifications

Unit	Combined interrogator/transponder Beam-forming network Fuselage-mounted antenna elements	
Interrogator subsystem	Detection range Sector coverage Azimuth accuracy Range accuracy and resolution In-beam targets Modes	>100 nmi ±60 degrees AZ, ±60 degrees EL ±2 degrees <500 feet (152 meters) 32 1, 2, 3/A, C, and 4
Interrogator antenna	Number of antenna elements	4
Interrogator unique features	Front-panel transmit 2.4 kilowatts minimum Front-panel receive -85 dBm typical Monopulse receive, AJ protection, Mode C altitude report, reply evaluation and degarbling	
Dimensions and weight	8.26" height x 6.00" width x 14.50" depth, 32 pounds 6.50" height x 8.38" width x 4.00" depth, 10 pounds 1.13" height x 2.16" width x 9.32" depth, 0.5 pounds	
Transponder subsystem	Front-panel transmit Front-panel receive Modes	500 watts -76 dBm 1, 2, 3/A, C, 4 and S
System parameters	MTBF System CIT only MTTR Fault detection Fault isolation Prime power Voltage Consumption Forced-air cooling	2,335 hours 2,550 hours 25 minutes 96 percent 99 percent 28 Vdc 180 watts CIT unit only

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