

# AN/APX-111(V) Interrogator Transponder

F/A-18 configuration



BAE Systems produces the **AN/APX-111(V) combined interrogator/transponder (CIT)** systems for the F/A-18 aircraft.

## Description

With more than seventy years experience, BAE Systems leads the industry in IFF development and technology. The AN/ APX-111(V) CIT continues this legacy of IFF expertise with the highest-performance and most cost-effective IFF system available.

## Features and/or benefits

- Complete Mark XII or Mark XIIA identification system (including crypto computer) in one unit
- Mode S, Level 2-capable (ELS and EHS)
- Ada software
- MIL-STD-1553 bus interface
- AIMS 03-1000A Certified
- Available with Linear Interrogator Transmitter

## Specifications

Unit	Combined interrogator/transponder RT-1763(V) KIV-6/TSEC or KIV-78 TSEC cryptographic computer applique Interrogator antenna (see below)	
Interrogator subsystem	Detection range Sector coverage Azimuth accuracy Range accuracy and resolution In-beam targets Modes	>100 nmi +/- 60 degrees AZ, +60, -30 degrees EL ±2 degrees <500 feet (156 meters) 32 1, 2, 3/A, C, 4 and 5
Interrogator antenna	Beam-forming network Fuselage-mounted antenna elements or beam-forming network Conformal antenna system array	C-12481 (V) AS-4440 (V) (quantity 5) C-12625 (V) AS-4518 (V)
Interrogator unique features	Front-panel transmit Front-panel receive Monopulse receive, AJ protection, mode C altitude report, reply evaluation, and degarbling	1.4 kilowatts -81 dBm
Dimensions and weight	CIT with KIV-6 installed CAS BFN CAS array	8.17" height x 5.75" width x 12.61" depth, 29 pounds 3.00" height x 12.12" width x 7.80" depth, 13 pounds 1.64" height x 18.50" width x 17.28" depth, 12 pounds
Transponder subsystem	Front-panel transmit Front-panel receive Modes	500 watts -76 dBm 1, 2, 3/A, C, 4, 5, and S
System parameters	MTBF System CIT only MTTR Fault detection Fault isolation Prime power Voltage Consumption Forced-air cooling	2,500 hours >3,500 hours 0.25 hours 98 percent 99 percent 28 Vdc 180 watts CIT WRA only

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