BAE SYSTEMS

AN/APX-124(C) Digital Transponder

with Mode 5 and Mode S

BAE Systems' **AN/APX-124(C) digital transponder** has all the features of the AN/APX-123(V) transponder plus increased processing and memory reserve for future growth requirements. It also has fewer SRUs, providing improved maintainability and reduced logistics.

Description

Our common transponder (CXP) products incorporate all of the advanced features required in today's global military and civil air traffic control environments. The AN/APX-124 transponder contains an NSA-certified M4/M5 crypto and meets all U.S. and NATO Mode 5 requirements. The transponder's open-system architecture design and high-density field-programmable gate array technology ensures ongoing versatility and future utility through software upgrade only, without the risk and cost associated with hardware modifications.

Features and/or benefits

- Supports Modes 1, 2, 3/A, C, 4, and Mode 5, Level 1 and 2
- Supports Mode S, Level 3, per RTCA/ DO-181E
- Elementary surveillance (ELS) and enhanced surveillance (EHS) compliant
- ADS-B out-capable per RTCA/DO-260B
- DoD AIMS 03-1000B Amendment 1- compliant
- MIDS and JTIDS compatible
- NSA-certified M4/M5 crypto

Transponder	
Weight	Less than 12 pounds (with embedded M5 crypto)
Dimensions	5.375" height x 5.375" width x 8.375"depth
Power	Available for use with 28 Vdc IAW MIL-STD-704. Typically less than 35 watts; 60 watts maximum
Reliability	2,300-hour predicted MTBF in airborne uninhabited platform
Maintainability	Front-panel BIT activation and LRU and WRA status indicator for rapid verification of operational readiness

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