

# 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

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|-----------------|---|
| 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.<br>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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### For more information contact:

BAE Systems

Bill Banfi  
450 Pulaski Road, M/S GNY010118  
Greenlawn, NY 11740

**T:** 631 262 8220

**E:** [william.banfi@baesystems.com](mailto:william.banfi@baesystems.com)

**W:** [www.baesystems.com/IFF](http://www.baesystems.com/IFF)

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