

AN/APX-123/A(V) Common Transponder

with Mode 5 and Mode S



BAE Systems' **common transponder (CXP)** is the U.S. Navy and Army standard transponder for all retrofit and new product applications.

Description

Our CXP products incorporate all of the advanced features required in today's global military and civil air traffic control environments. The AN/APX-123/A 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. The CXP is configured for replacement of all AN/APX-100, AN/APX-101, AN/APX-108, AN/APX-64, AN/APX-72 and AN/UPX-28 transponders.

Features and/or benefits

- Flexible interface designed to accommodate retrofit and new installations
- Supports Modes 1, 2, 3/A, C, 4 and Mode 5 Level 1 and 2
- Supports Mode S Level 3 and interface to TCAS II systems per RTCA/DO-181
- Elementary surveillance (ELS) and enhanced surveillance (EHS)-compliant
- ADS-B Out compliant per RTCA/DO-260B
- DoD AIMS 03-1000 certified
- NSA-certified M4/M5 crypto
- MIDS and JTIDS-compatible
- Optional remote control unit for use on non-based platforms
- MIL-STD-1553 control and status for glass cockpits
- Ethernet and RS-232 for shipboard control
- FAA TSO-C 112 and TSO-C 166 certification

Transponder

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|-----------------|--|
| Weight | Less than 12 pounds (with embedded 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 40 watts; 70 watts maximum |
| Reliability | 2,300-hour predicted MTBF in airborne uninhabited platform; 8,800-hour predicted in inhabited environment |
| Maintainability | Front-panel BIT activation and LRU/WRA status indicator for rapid verification of operational readiness |

Remote Control Unit (RCU)

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| Weight | Less than three pounds |
| Dimensions | 5.25" height x 5.75" width x 3.00" depth |

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