

AN/APX-123A(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.

Our CXP products incorporate all of the advanced features required in today's global military and civil air traffic control environments. The AN/APX-123A transponder contains an NSA-certified 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 benefits

- Flexible interface designed to accommodate retrofit and new installations
- Elementary surveillance (ELS) and enhanced surveillance (EHS)-compliant
- ADS-B Out compliant per RTCA/DO-260B
- MIDS and JTIDS-compatible
- Optional remote control unit for use on non-bused platforms
- MIL-STD-1553 control and status for glass cockpits
- Ethernet and RS-232 for shipboard control

Specifications

Supports	Modes 1, 2, 3/A, C and Mode 5 Level 1 and 2
	Mode 5 Level 3 and interface to TCAS II systems per RTCA/DO-181
Certifications	FAA TSO-C112 and TSO-C166
	DoD AIMS 17-1000 certified
	NSA-certified M5 crypto

Transponder

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)

Weight	Less than 3 pounds
Dimensions	5.250" height x 5.750" width x 3.000" depth

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