

AN/APX-117A(V) and AN/APX-118A(V)

Common transponders

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 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 direct 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-260A
- 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
- AN/APX-118(V) has an embedded M4 cryptographic computer
- AN/APX-117(V) facilitates applications with or without an external cryptographic computer

Specifications

Supports	Modes 1, 2, 3/A, C, 4, and Mode 5 growth
	Mode S, Level 2, and interface to TCAS II system per RTCA/DO-181C
	Mode 5 upgrade kits available
Certifications	DoD AIMS 97-1000-certified
	FAA TSO certification

Transponder

Weight	Less than 12 pounds
Dimensions	5.375" height x 5.375" width x 8.375" depth
Power available	Both the AN/APX-117A(V) and AN/APX-118A(V) are for use with 28 Vdc IAW with MIL-STD-704. Typically less than 40 watts; 70 watts maximum
Reliability platform	4,800-hour predicted MTBF in airborne-uninhabited 15,000-hour predicted MTBF 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 three pounds
Dimensions	5.25" height x 5.75" width x 3.00" depth



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