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 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/or benefits

- Flexible interface designed to accommodate retrofit and new installations
- Supports Modes 1, 2, 3/A, C, 4, and Mode 5 growth
- Mode 5 upgrade kits available
- Supports Mode S, Level 3, and interface to TCAS II system per RTCA/DO-181C
- Elementary surveillance (ELS) and enhanced surveillance (EHS)-compliant
- ADS-B Out-compliant per RTCA/DO-260A
- DoD AIMS 97-1000-certified
- 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
- FAA TSO certification
- AN/APX-118(V) has an embedded M4 cryptographic computer
- AN/APX-117(V) facilitates applications with or without an external cryptographic computer
## Transponder

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>Less than 12 pounds</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5.375” height x 5.375” width x 8.375” depth</td>
</tr>
<tr>
<td>Power</td>
<td>Both the AN/APX-117/A(V) and AN/APX-118/A(V) are available for use with 28 Vdc IAW with MIL-STD-704. Typically less than 40 watts; 70 watts maximum</td>
</tr>
<tr>
<td>Reliability</td>
<td>4,800-hour predicted MTBF in airborne-uninhabited platform</td>
</tr>
<tr>
<td></td>
<td>15,000-hour predicted MTBF in inhabited environment</td>
</tr>
<tr>
<td>Maintainability</td>
<td>Front-panel BIT activation and LRU/WRA status indicator for rapid verification of operational readiness</td>
</tr>
</tbody>
</table>

## Remote Control Unit (RCU)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Weight</td>
<td>Less than three pounds</td>
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<tr>
<td>Dimensions</td>
<td>5.25” height x 5.75” width x 3.00” depth</td>
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</tbody>
</table>

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