Robust communication solutions implement security and information assurance across converging networks

Palomar SCS solutions from Esterline include switching and crew-position units for airborne, shipboard, unmanned, and ground applications for multi-mission platforms. Implementations include airborne secure interphones, shipboard secure voice switches (SVS), air-defense ground stations, and more.

Palomar solutions allow sharing of platform communication assets in simultaneous clear/secure/top-secret modes among mission participants through multiple interfaces, such as T1, MIL-STD-1553, and Ethernet. Linked assets can include radios, SATCOM, datalinks (Link 11, Link 16 audio), and cryptos.

Our systems perform in many mission types, including patrol, recon, attack, refueling, and transport, and are adapted to today’s multi-domain, evolving battlespace that encompasses multiple converging information networks.

Finally, our solutions allow the flexibility to transition to newer technologies and protocols within legacy environments, or to deploy completely new applications.

**Fixed wing**
- B-1
- P-3
- P-8
- AEW&C
- AWACS
- AC/C130
- E-3A / RE-6
- E-6A / E-6B
- CL 604

**Rotary wing**
- VH-3
- VH-60 / HH-60
- VH-71
- AW-149

**Ships**
- LCC
- LHA
- LHD
- CV/CVN
- BB
- CG
- DDG
Palomar Secure Communication Systems (SCS)

Advantages

- Proven for over 45 years in a wide range of platforms, environments, and mission types, including 250 aircraft and 9 ship classes for 30 different customers
- Fast, accurate, high-reliability secure communication
- Optimized for the information-based, net-centric battlespace
- Flexible, scalable architecture for multiple crew positions to match mission requirements
- Highly configurable through software
- Support for simultaneous clear and secure operation with wide range of encryption mechanisms
- Seamless integration of communication assets, including Ethernet and VoIP
- SWaP-C advantages
- Certifiable to US FAA flight-safety standards
- Environmental performance to MIL-STD-810 and DO-160
- TEMPEST: NSTISSAM 1-92 and 2-95A
- EMI/EMC: MIL-STD-461 and 464

Applications

<table>
<thead>
<tr>
<th>Generation</th>
<th>Palomar SCS 1.0</th>
<th>Palomar SCS 2.0</th>
<th>Palomar SCS 3.0</th>
<th>Palomar SCS 4.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Analog switching</td>
<td>Large digital</td>
<td>Compact digital</td>
<td>Next gen</td>
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<tr>
<td>Large fixed-wing aircraft</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Medium / heavy helicopters</td>
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<tr>
<td>Light helicopters / small fixed-wing aircraft</td>
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<tr>
<td>UAV / ground control</td>
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<tr>
<td>Shipboard</td>
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<tr>
<td>Ground vehicle</td>
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For more information about Palomar solutions, please contact us at 949-766-5300 or palomar.sales@esterline.com.

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