To meet the robust needs and requirements of ground, airborne and maritime air defense, Telephonics developed the Small Form Factor (SFF-44) tactical All-Mode Identification Friend or Foe (IFF) interrogator. Specifically designed to address critical Size, Weight and Power (SWaP) consumption limitations, SFF-44 operates across a wide range of diverse and challenging environments.

**System Configuration**

By leveraging Telephonics’ All-Mode, AIMS-certified AN/UPX-44, the system is well-suited for ground-mobile, ground-fixed, shipboard and airborne platforms. The SFF-44 can be hard-mounted, shock-tray mounted or man-pack portable and with the latest advancements in electronic and mechanical packaging, SFF-44 provides leading-edge interrogator performance capabilities, while maintaining small system size.

SFF-44 interfaces with mission systems using Ethernet ASTERIX formatted structures and may be tailored to adapt to unique IFF systems.

Additionally, the SFF-44 is compatible with a variety of prime power input sources and antenna configurations.

**Diverse Operating Capabilities**

The SFF-44 operates in Modes 1, 2, 3/A, C, 4, 5 Level 1 and 2, Mode S Level 2 with Extended Length Messages (ELM) and Automatic Dependent Surveillance-Broadcast (ADS-B). It also provides multi-channel squitter detection and reporting for Mode S, ADS-B and Mode 5 Level 2/Mode 5 Level 2B while utilizing a KIV-77 or SIT2010 Cryptographic Computer appliqué for Modes 4 and 5 operations.
Small Form Factor Tactical IFF Interrogator (SFF-44)

The SFF-44 offers three distinct models in a variety of weight, size, input/output power and ranges:

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Weight (lb.)</th>
<th>Size (H x W x D in.)</th>
<th>Input Power</th>
<th>Output Power</th>
<th>Max Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFF-44A</td>
<td>&lt; 37</td>
<td>9.65 x 7.2 x 9.65</td>
<td>18-36 VDC or 97-230 VAC 47-63 Hz ≤ 90 w</td>
<td>10-200 W</td>
<td>Antenna Gain Dependent</td>
</tr>
<tr>
<td>SFF-44B</td>
<td>&lt; 37</td>
<td>11.82 x 7.2 x 9.65</td>
<td>18-36 VDC or 97-230 VAC 47-63 Hz ≤ 130 w</td>
<td>100-1200 W</td>
<td>Antenna Gain Dependent</td>
</tr>
<tr>
<td>SFF-44C</td>
<td>&lt; 37</td>
<td>9.65 x 7.2 x 10.65</td>
<td>18-36 VDC or 97-230 VAC 47-63 Hz &lt; 150 w</td>
<td>600 – 2500 W</td>
<td>Antenna Gain Dependent</td>
</tr>
</tbody>
</table>

Specification Compliance

The SFF-44 is designed to meet all applicable U.S. and international specifications including:

- DoD AIMS 03-1000A (through change notice 3)
- DoD AIMS 03-1000B
- DoD AIMS 04-900A
- STANAG 4193
- ICAO Annex 10

The interrogator also meets the environmental requirements of MIL-STD-810G including gunfire vibration and the electromagnetic environments of MIL-STD-461E. It is compliant with the safety requirements of MIL-STD-882D and human factors in accordance with MIL-STD-1472D.

For additional information, contact Telephonics at 631-755-7000 or visit www.telephonics.com.