PRIMARY SURVEILLANCE RADAR FOR AIR TRAFFIC CONTROL

- More than 40 radars worldwide
- Maximised small target detection range capability for extended controlled area
- Solid-state design using the latest technology
- Low cost of ownership
- Short term delivery
- Stand-alone or co-mounted with a secondary RSM970S Mode S radar
- Windfarms: dedicated impact studies and implementation of optimal mitigation, among a large panel of solutions
- In option, altimetry assessment

AERONAUTICAL

TRAC 2000N

New Generation L-band Solid-State En-Route Radar
CHARACTERISTICS

OPERATIONAL FUNCTIONS
• Primary Surveillance Radar for En-Route control area
• Optional weather channel providing 2 or 6-level weather maps

EASE OF MAINTENANCE
• Comprehensive embedded BITE
• Local / remote diagnosis capabilities
• Transmitter power-on maintenance with on-line replaceable modules
• No analogue inherent adjustments
• Limited number of LRU types

SAFETY
• High integrity and availability of data provided to the controller
• Fail-safe capability

ADVANCED MAINTENANCE TOOLS

TECHNICAL CHARACTERISTICS
• Fault tolerant solid-state transmitter with 8 or 16 power modules
• Power modules equipped with individual & independent cooling
• Digital frequency selection per 1 MHz step
• Digital Phase-Amplitude Detection receiver
• Advanced Signal Processing Algorithms running on COTS PC Linux
• On-line system performance monitoring
• Serial line/ Ethernet UDP/TCP IP outputs

BASIC SYSTEM PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>1250 to 1350 MHz</td>
</tr>
<tr>
<td>Minimum range</td>
<td>1 NM</td>
</tr>
<tr>
<td>Instrumented range</td>
<td>200 - 250 NM</td>
</tr>
<tr>
<td>Rotation rate</td>
<td>5 - 6 rpm</td>
</tr>
<tr>
<td>Polarization</td>
<td>Linear/circular</td>
</tr>
<tr>
<td>System stability</td>
<td>&gt; 65 dB</td>
</tr>
<tr>
<td>MTBCF</td>
<td>&gt; 35,000 hours</td>
</tr>
<tr>
<td>MTR</td>
<td>&lt; 30 min.</td>
</tr>
<tr>
<td>Inherent Availability</td>
<td>99.999 %</td>
</tr>
</tbody>
</table>

VERTICAL COVERAGE DIAGRAM