

# Lockheed Martin Sentinel A4

ADVANCED RADAR FOR TODAY'S THREATS WITH GROWTH  
CAPABILITIES TO STAY AHEAD OF TOMORROW'S FIGHT



RADAR DRIVERS	FEATURES of Sentinel A4	BENEFIT of Sentinel A4
<b>Air Defense over 360° (Fixed Wing, Rotary Wing, Unmanned Aerial Vehicles, Cruise Missiles)</b>	 75% Increase in Range over legacy; Full Hemisphere Coverage	<ul style="list-style-type: none"> <li>• Modern Digital Active Electronically Scanned Antenna Architecture Enables Efficient Volume Coverage Specifically Designed for Required Mission</li> </ul>
<b>Added Mission Capabilities</b>	 Air Defense Mission Performed with Rocket, Artillery, and Mortar Defense; AESA allows for true Stop-and-Stare Search & Track	<ul style="list-style-type: none"> <li>• Single Mode Counters All Threats in Mission</li> <li>• Point Of Impact Performed Simultaneous to Air Defense Mission</li> <li>• Full Hemispherical coverage in Rotate or Stop &amp; Stare</li> </ul>
<b>Advanced Threats in Adverse Environments</b>	 Advanced Electronic Protection and Dedicated Operations not only improve legacy system, but significantly enhances resilience in contested environments	<ul style="list-style-type: none"> <li>• Distributed AESA enables Detection of Small Targets in Dense Clutter and Electronic Attack Environments</li> <li>• Advanced Waveforms performed without sacrificing search and track performance</li> </ul>
<b>Growth Capability &amp; Architecture Flexibility</b>	 Flexible Open HW / SW Architecture; Additional 30% Range Increase with Full AESA Population	<ul style="list-style-type: none"> <li>• Flexible and Scalable Signal and Data Processor and Digital AESA Enables Significant Capability Expansion</li> <li>• Additional AESA Population Available for Increased Range and / or Added Simultaneous Functions</li> </ul>
<b>Performance vs. Cost</b>	 5 Engineering Manufacturing Development Systems Delivered 5 User Operational Evaluation Systems in Production Advanced Modern Digital AESA Radar	<ul style="list-style-type: none"> <li>• Low Cost / Commercial Off-the-Shelf-based Radar System Enables Best Balance of Capability and Price</li> </ul>
<b>Mobility</b>	 Towed Package, Mounted on 5 Ton FMTV Trailer	<ul style="list-style-type: none"> <li>• Supports Air, Sea, Helo, Highway, Rail and Organic Offroad Transport; Separable Radar Payload</li> </ul>
<b>Reliability/Maintainability</b>	 Minimal Line Replaceable Unit Types Graceful AESA Degradation	<ul style="list-style-type: none"> <li>• Robust Design with Highly Distributed AESA Architecture allows Failures without loss of Mission Effectiveness</li> </ul>