

SCORPIUS - SJ

AESA Support Jammer System (SJS)

ELL-8251SB

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The Scorpius - SJ (ELL-8251S8) is an advanced EW system that suppresses all types of enemy Air Defense Surveillance and Fire Control Radars. The jammer is based on cutting edge Active Electronic Scanned Array (AESA) technology which enables high sensitivity target detection and high-power transmission of accurate and narrowly focused directional multiple beams, resulting in the most effective jammer available today.

The system is designed for installation on fighter and mission aircraft for escort and stand off jamming missions or on military transport aircraft. The system utilizes electronically steere jamming technology providing protection against all types of Air-to-Air (A/A) and Surface-to-Air (S/A) threats in dense radar-guided weapons environments. The system operates automatically with minimal pilot intervention.

On a fighter aircraft, the Scorpius - SJ is installed as an external pod on the fuselage centerline station, and on military transport aircraft it is installed internally or as a pod. The system is flight line re-programmable for mission adaptability. Libraries of threats and jamming techniques are easily updated and new ones can be added by using a user-friendly, menu-driven PC application.

FEATURES

- Wide frequency coverage: 1GHz - 18 GHz
- Multi-beam, multi-jamming techniques
- 360° spatial receiving and transmitting coverage
- Jamming of multiple threats simultaneously with independent directional transmission performed by phased-array electronic steering
- Additional internal power generated by a Ram Air Turbine
- High degree of time / frequency selectivity for effective operation in a dense emitter environment
- Exceptionally high RF sensitivity and effective radiated power (ERP)
- Accurate and rapid threat Direction Finding (DF)
- Enhanced and user-friendly operational support tools:
  - Easy to program, fast-loading User Defined File Generator (UDFG)
  - Full mission events data recording (operation and maintenance)
  - Mission Debriefing using PC-based mission event replay tool



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