AN/ALQ-211 ESM/ELINT Receiver

Date Revised: 30 JAN 04

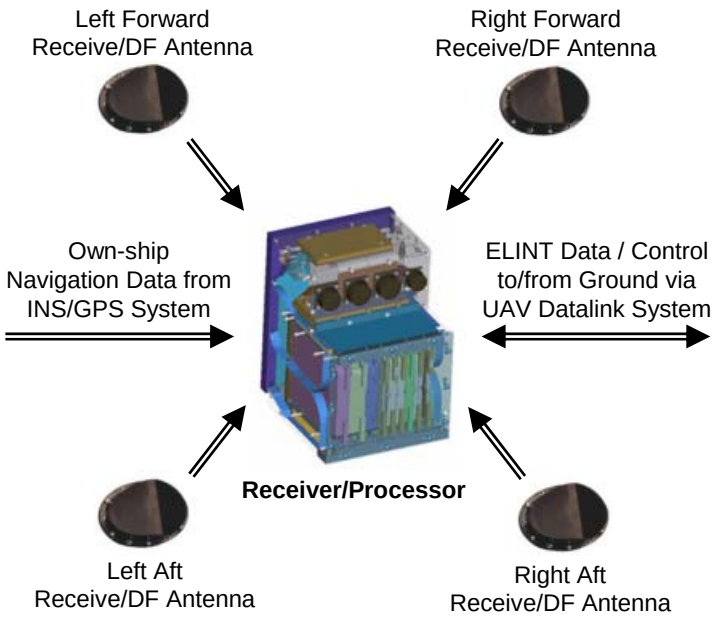
VENDOR DESCRIPTION

The AN/ALQ-211 ESM/ELINT system is a small, lightweight variant of the US Army-developed AN/ALQ-211 family of radar detection and jamming systems. The system is designed for unattended operation on airborne and ground-based military platforms. Its small size and light weight make it ideal for installation on UAVs and other platforms with payload limitations.

The system detects and identifies PR, PC, PD and CW radars over a wide RF bandwidth. Intercepted emitters are correlated with a preprogrammed Electronic Order of Battle (EOB). Unexpected emitters are geolocated with a high degree of accuracy. Intercepted emitter data can be recorded onboard and can be sent off-board via the platform's data link.

The AN/ALQ-211 system includes a state-of-the-art digital receiver that accurately measures emitter RF characteristics including RF, RF Agility, Pulse Width (PW), Pulse Repetition Interval (PRI), PRI Agility and RF Phase. The system's small footprint phase interferometry Direction Finding (DF) antennas measure emitter direction of arrival to a high degree of accuracy over the full 360-degree field of view.

The system includes ITT's advanced Sensor Fusion Processor, which includes algorithms that perform sensor data fusion processing, Electronic Order of Battle (EOB) correlation and data filtering designed to minimize datalink bandwidth requirements.



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Business Category: Large Business

SIGINT

Hardware	
Power: 220 watts	Operating Speed: 0 to Fighter Aircraft Speeds
Weight: 32 lbs	Operating Temp.: -40°C to +55°C
Dimensions: 6.8" x 9.6" x 10" (Receiver/Proc), 5"x3"x3" x4 (Antennas)	Storage Temp.: -65°C to +85°C
Internal Volume: 0.38 ft^3	Interface: MIL STD-1553, RS-422, RS-232
In-Flight Manipulation of the Sensor: Not required	Bandwidth Required: Depends on RF environment – typically ~10KBS
Able to Perform in an Environment with 30°/sec Yaw & Pitch Rates	TCDL Compatibility: TCDL message formats can be provided
Range: Unlimited – Automatic operation when out of GCS range	MTBF: > 4000 hrs
	MTTR: < 0.5 hrs
Operating Altitude: Ground Level to >60,000 ft MSL	Maintainability: 2-level BIT to LRM level

Performance
Designed for continuous operation
Light Weight
Small Size
Network Centric Enabled