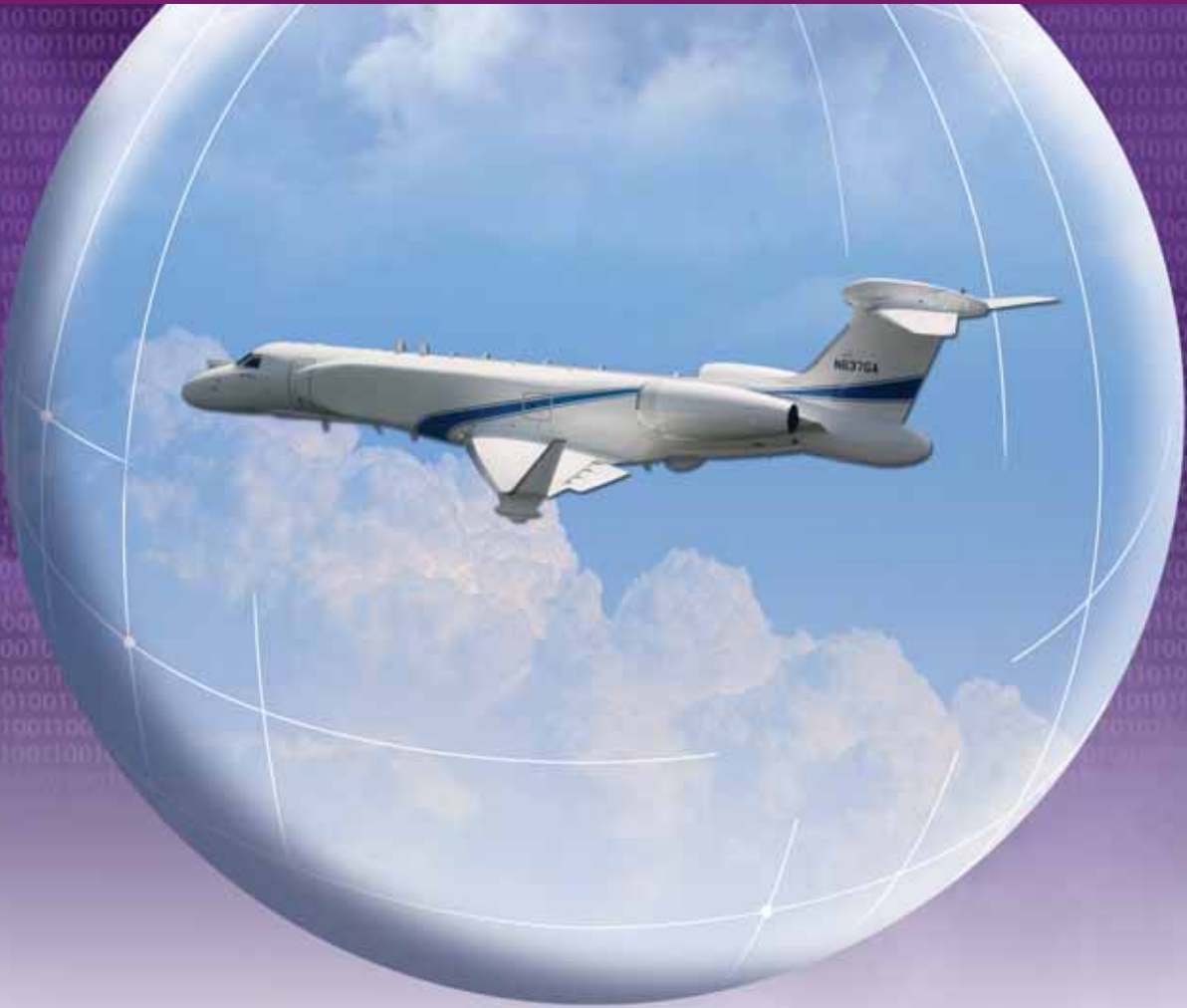


Conformal Airborne Early Warning & Control (CAEW) ■ EL/W-2085



General

EL/W-2085 is ELTA's third generation of Conformal Airborne Early Warning & Control (CAEW) systems. The system is mounted on a modified long-range, high-performance and low operating cost Gulfstream 550 business jet. ELTA's integrated sensor suite, with a powerful communication system, supports a variety of missions such as:

- Long-Range Air Surveillance
- Airborne C4I for Air & Naval Operations
- Airborne Command & Control Post
- Network Centric Warfare Operations
- Communication Node

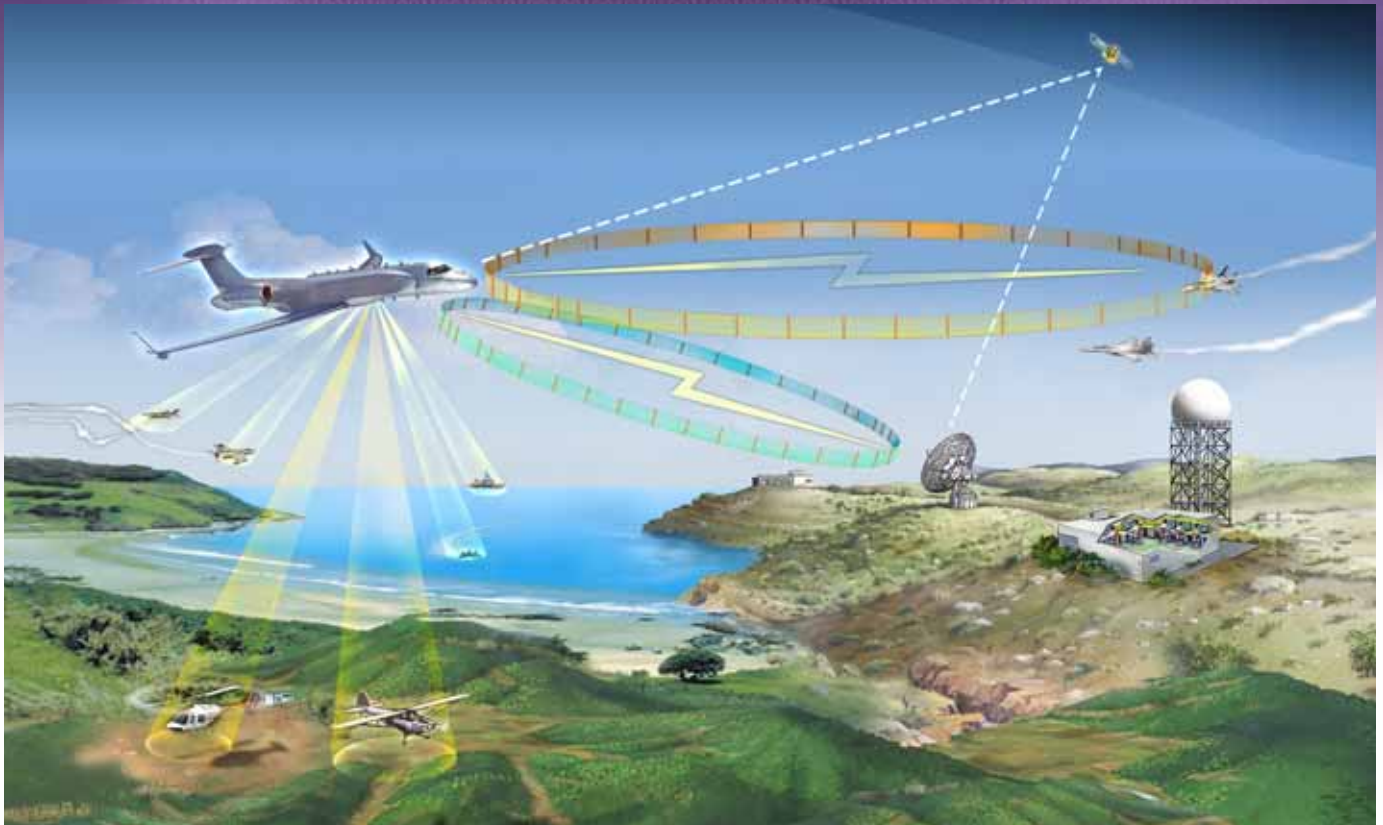
Gulfstream G550 Aircraft – This large-cabin, ultra long-range (6,750 nm) business jet can fly higher than any commercial jet modified to carry out AEW missions. Advanced, low drag conformal installation enables higher loitering altitude for long-range detection of low altitude targets.

The scheduled maintenance of the G550 CAEW aircraft is mostly accomplished in parallel to its operation, thus supporting high operational availability and low operating cost.

Sensor Data Integration – The CAEW integrates the data of the onboard sensors (Radar, IFF, ESM/ELINT, CSM/COMINT, SPS/RWR) with the theater situation picture via high capacity multiple Data Links.

IAI/ELTA Systems has vast experience in integrating tailor-made CAEW and Multi-Mission systems on various platforms, adapted to customer requirements.

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System	Characteristics
Radar	Active Electronic Steering Array (AESA), conformal, dual-band (L-band, S-band) radar with 360° coverage. The radar provides accurate 3-D tracks, low false alarm rate, flexible and high revisit time, ECCM and programmable search and track regimes
ESM / ELINT & CSM / COMINT	Electronic and Communication Support Measures and Signal Intelligence capabilities with High Probability of Signal Interception (HPOI) and high bearing accuracy. The ESM/ELINT subsystem supports the aircraft Self Protection System by also fulfilling the Radar Warning Receiver (RWR) function
Self-Protection System (SPS)	The SPS is an integrated system with 360° coverage including RWR and Missile Approach Warning System (MAWS) employing radar and IR technologies. The SPS Countermeasures include Chaff & Flares Dispensers (CFD) and Directive IR Countermeasures (DIRCM)

System	Characteristics
IFF	360° coverage. Accurate interrogation using radar's Rx / Tx modules and antennas
Operator Stations onboard	6 flexible, multi-purpose, 24" MS / Windows-based workstations capable of operating each Sensor and carrying out the Command & Control Function
Communication Suite	Communication Suite interoperable with Air-Force, Navy and Ground Forces including U/VHF, HF, SATCOM, VOIP, Secure Voice, Integrated Intercom and Secure Data Link. Option: Integration of customer's specific data links

Mission Support Systems

- Mission Planning Station
- Post-Mission Debriefing System
- Mission Simulator for Operators (off-line) Training

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