

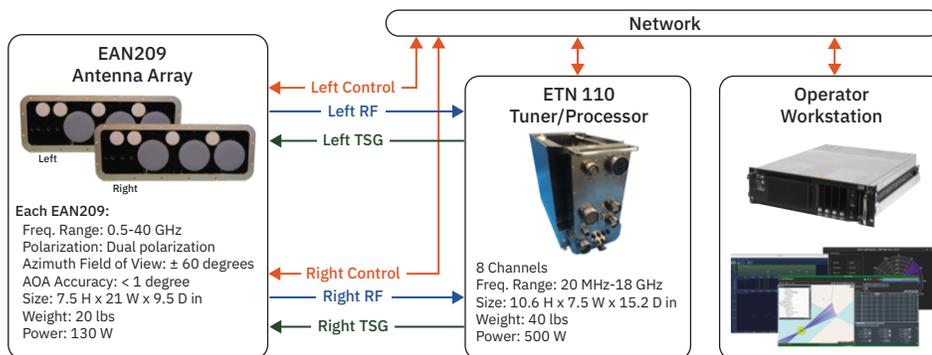
SMALL SWAP OLYMPIA SYSTEM

Provides complete radar detection, processing and geolocation solutions for situational awareness and threat warning

OVERVIEW

Olympia represents a family of electronic intelligence (ELINT) and electronic support measures (ESM) products. Small SWaP Olympia (SSO) is an open architecture direction finding (DF) system that is largely designed around commercial off-the-shelf (COTS) hardware using industry standards for packaging and interfacing. SSO aligns to the Open Group Sensor Open Systems Architecture™ (SOSA[®]) for increased flexibility and obsolescence risk reduction.

With its high probability of intercept and DF accuracy, Olympia satisfies both ELINT and ESM missions. The modular system is scalable to meet a variety of platform requirements and mission CONOPS.



Olympia provides a line of products that satisfies a wide variety of system requirements

SPECIFICATIONS

Frequency Range	500 MHz to 40 GHz
Angle of Arrival Accuracy	< 1° RMS
Field of View	EAN209 (x2) 240° and EAN222 (x4) 360°
Instantaneous Bandwidth	500 MHz (simultaneous on two sides)
Geolocation Accuracy	< 2% of range to emitter
Sensitivity	Better than -80 dBm
Dynamic Range	> 55 dB
Pulse Processing	Inter- and intra-pulse parameter measurement (including AOA) Modulation: LFM, NLFM, PSK, FSK
CW Processing	CW parameter measurement (including AOA)



KEY HIGHLIGHTS

- > Complete ELINT/ESM solution utilizing three-band antenna interferometers for better than 1° direction finding accuracy
- > SOSA-aligned chassis allows custom payload configuration
- > 100 Gbit Ethernet interconnect fabric makes sensor flexible and scalable
- > Operator interfaces are common to other Olympia products
- > Open interfaces use Data Distribution Service (DDS) to enable easy third-party integration
- > Software Development Kit (SDK) available upon request
- > Ground station can be configured for training, simulation and data analysis
- > Operator and train the trainer training is available

OLYMPIA USER INTERFACE

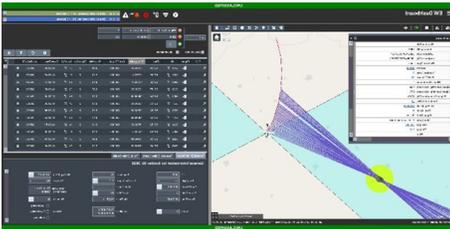
The Olympia ELINT solution includes four software applications for the operator

- > **EW Dashboard:** Command and control of the system and a map to view emitter data
- > **GUI Solution for Mixed ELINT Reporting (GSMER):** Provides near real-time situational awareness
- > **Polar LOB Display:** Provides the user with a near real-time polar plot of the LOB reports
- > **Emitter Location and Identification Toolkit (ELIT):** Provides the user with an interface to maintain the ELINT Notation File (ENF) and EOB

EW DASHBOARD

The EW Dashboard provides the main user interface to interact with the sensor. It provides the user with:

- > Sensor control and status
- > LOBs and ellipses displayed on a moving map
- > Emitter geolocation
- > Emitter details

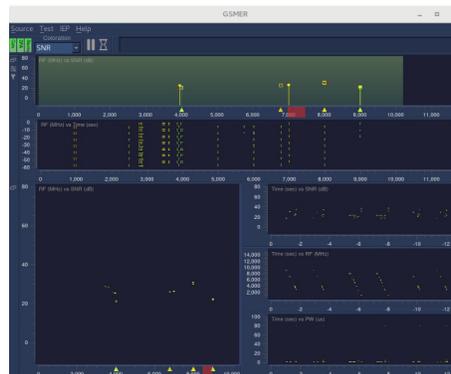


EW Dashboard

GSMER

GSMER provides the user with a near real-time display of the PDW data being received from the sensor.

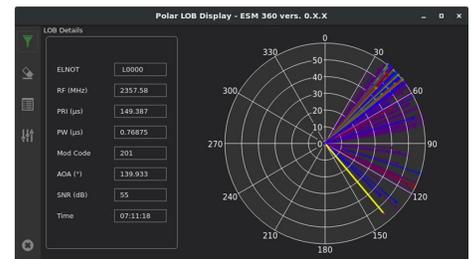
- > Bandscan: situational awareness of pulse activity for the full spectrum
- > Waterfall: situational awareness of pulse activity for the full spectrum over time
- > PDW Analysis Windows: detailed parametrics for selected area of spectrum



GUI Solution for Mixed ELINT Reporting

POLAR LOB DISPLAY

The Polar LOB Display plots the near real-time LOB reports that are being received from the sensor. The user can apply filters to isolate signals with matching parametrics.



Polar LOB Display

POINT OF CONTACT

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Scan here for more information on our Olympia system.

Small SwaP Olympia (SSO) System

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