



**L3HARRIS™**  
FAST. FORWARD.

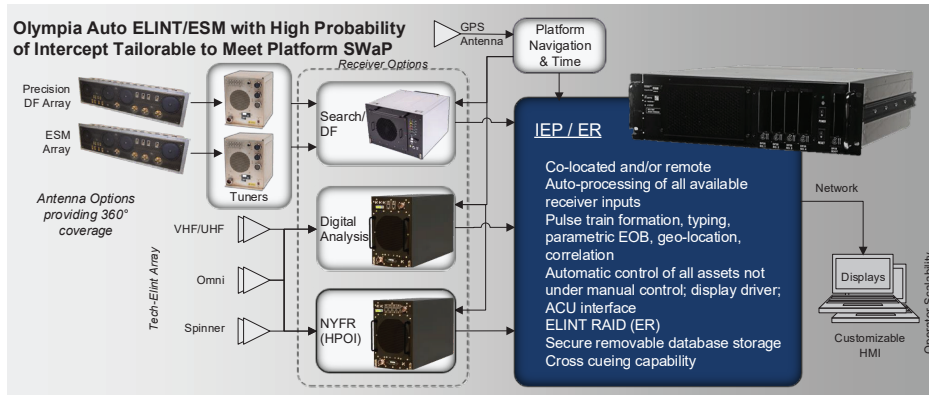
# OLYMPIA ELINT/ESM SYSTEM

The Olympia product line provides complete radar detection, processing and geolocation solutions for situational awareness and threat warning.

## OVERVIEW

Olympia represents the latest L3Harris development in Electronic Intelligence (ELINT)/Electronic Support Measures (ESM) systems technology. Olympia is an open architecture system that is largely designed around COTS hardware using industry standards for packaging and interfacing.

Olympia's high probability of intercept and direction finding accuracy allow it to satisfy both the ELINT and ESM missions. The flexibility of the system allows it to be scaled to meet a variety of platform requirements.



## SPECIFICATIONS\*

<b>Frequency Range</b>	500 MHz – 40 GHz
<b>Angle of Arrival Accuracy</b>	< 1° RMS
<b>Instantaneous Bandwidth</b>	15 GHz
<b>Geolocation Accuracy</b>	< 2% of range to emitter
<b>Sensitivity</b>	-88 dBm
<b>Dynamic Range</b>	> 55 dB
<b>Pulse Processing</b>	Inter and intra pulse parameter measurement (including AOA) Modulation: LFM, NLFM, PSK, FSK, LPI (low peak power FM)
<b>CW Processing</b>	CW parameter measurement (including AOA) Modulation: FSK, PSK

\*The capabilities and specified performance are dependent on the options selected



## OLYMPIA ELINT/ESM DISPLAY

The Olympia software suite running on the Integrated ELINT Processor (IEP)/ELINT RAID (ER) provides the operator with:

- > Command/status
- > Mapped line of bearing/geo location information
- > Received signal information
- > Configurable visualization of Pulse Descriptor Word (PDW) information for real time assessment of the ELINT environment

ELINT RAID (ER)		
Input	Signal reports	
Output	Geolocation, Operator GUI	
Size H x W x L (in)	5 x 17 x 22	
Power	408 W (115 VAC)	
EPR417 DIGITAL PROCESSING ASSEMBLY		
Input	4/8/12 IF Channels	
Output	CW and pulse signal and emitter reports including AOA and geo location	
Instantaneous Bandwidth	500Mhz	
Size H x W x L (in)	11 x 15 x 14	
Power	525 W (28VDC)	
ETN107 TUNER ASSEMBLY		
Frequency Range	0.32-18 GHz	
Instantaneous Bandwidth	500 MHz	
RF Channels	4/8	
Size H x W x L (in)	11 x 8 x 10	
Power	142 W (28VDC)	
ERV139 NYQUIST FOLDING RECEIVER (NYFR)		
Frequency Range	3-18 GHz	
Instantaneous Bandwidth	15 GHz	
Output	Pulse Descriptor Words	
Size H x W x L (in)	12 x 8 x 17	
Power	603 W (115VAC)	
TECHNICAL EXPLOITATION RECEIVER (TEX)		
Frequency Range	0.5 – 18 GHz	
Instantaneous Bandwidth	120 MHz	
Output	Pulse Descriptor Words, gated or continuous IQ	
Size H x W x L (in)	12 x 8 x 17	
Power	414 W (115VAC)	
EAN200 ANTENNA ARRAY		
Frequency Range	0.5-40 GHz	
Angle of Arrival Accuracy	< 1° RMS	
Azimuth Field of View	+/- 60°	
Size H x W x L (in)	13 x 48 x 10	
Power	170 W (28VDC)	
EAN159 ANTENNA ARRAY		
Frequency Range	2-18 GHz	
Angle of Arrival Accuracy	< 1° RMS	
Azimuth Field of View	+/- 60°	
Size H x W x L (in)	13 x 31 x 16	
Power	40 W (28VDC)	
EAN167 ANTENNA ARRAY		
Frequency Range	0.5-18 GHz	
Angle of Arrival Accuracy	< 0.5° RMS	
Azimuth Field of View	+/- 60°	
Size H x W x L (in)	24 x 78 x 12	
Power	64 W (28VDC)	

Olympia ELINT/ESM System - Rev\_C

© 2019 L3Harris Technologies, Inc. | 08/2019

NON-EXPORT CONTROLLED - These item(s)/data have been reviewed in accordance with the International Traffic in Arms Regulations (ITAR), 22 CFR part 120.11, and the Export Administration Regulations (EAR), 15 CFR 734(3)(b)(3), and may be released without export restrictions.

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



**L3HARRIS™**  
FAST. FORWARD.

1025 W. NASA Boulevard  
Melbourne, FL 32919  
t 903 455 3450 | f 903 457 4413  
integrated.mission.systems@L3Harris.com