

ELDIS RL-3000 is a fully software-defined 3D long range surveillance radar that provides Command and Control (C2) centers with a comprehensive situational overview of aerial situation and detects all threats within the declared range of the radar.

The radar is intended for continuous monitoring of airspace. It detects and classifies individual types of objects with different Radar Cross Section (RCS) in a wide range of speeds.

The system uses the latest processing technology utilizing a powerful fail-soft architecture and advanced detection and extraction algorithms. Therefore it is capable to process large amounts of data and adaptively suppress not only ground clutter but also sea clutter.

The radar is equipped with a MSSR interrogator with full Mode S capability and can be extended with an functionality Identification Friend or Foe (IFF) which provides automatic identification of targets.



# **BASIC DETECTION PARAMETERS**

>	Operating frequency	S-band (NATO E/F-band)
>	Instrumented range	240NM
>	Instrumented ceiling	up to 100,000 feet
>	Elevation coverage	> 25°
>	Refresh rate	selectable (from 6 to 10 seconds)

#### **KEY FEATURES**

- > Advanced solid-state 3D PSR sensor with IFF extension
- › AESA antenna using stacked beams in elevation
- GaN technology
- Fully digital radar integrating T/R modules with digital signal distribution and processing
- Output peak power:

 PSR
 70 kW

 MSSR
 2.5 kW

- Software defined radar (SDR), utilizing highly modular architecture
- > Programmable operating modes
- > BITE diagnostics up to LRU level
- Automatic system of local and remote diagnostics and control (optional manual override in combat mode)
- > Wide operating bandwidth
- > Frequency agility
- > Electronic counter-countermeasures (ECCM)
- > Antijamming techniques
- Automated / manual selection of operating frequency, transmitted waveform and EMCON

### **DATA OUTPUTS**

>	Standard data outputs	ASTERIX Cat 034/048
>	Weather data output	ASTERIX Cat 008/009
>	ADS-B data output	ASTERIX Cat 021

### **AVAILABILITY AND RELIABILITY**

Operational availability
 MTBCF
 MTTR
 Preventive maintenance
 Operational availability
 3,500 hours
 45 min.
 Hours / year

## **CONFIGURATION, INSTALLATION AND INTEGRATION**

- > Standalone installation with ELDIS GCI C2 system (ERDIS)
- > Simple integration into a national airspace surveillance network
- > Integration and adaptation with existing national C2 systems



