

# EchoFlight<sup>®</sup>

4D Airborne Radar

Ultra-Low SWaP

Un/tethered Drone Surveillance

Drone Interceptor Applications



Lightweight Metamaterials ESA (MESA<sup>®</sup>) Radar for Airborne Platforms that is Customizable to Mission Requirements.

## RADAR PERFORMANCE

### Frequency

K-band 24.45 – 24.65 GHz

### Field of View

120° Azimuth x 80° Elevation

### Track Accuracy

< 1° Azimuth x < 1.5° Elevation

### Track Update Rate

10 Hz

### Max Tracks

Up to 20 Simultaneous Tracks

### Instrumented Range

6 km

### Range

sUAV: > 750 m (Phantom 4)

> 1 km (Matrice 600)

Cessna: > 2 km

## SWaP & ENVIRONMENTAL

### Size

18.7 cm x 12 cm x 4 cm

### Weight

817 g (Natural Convection)

### Power

+ 12 to + 28 VDC

45 W (Operating)

≤ 10 W (Hot standby)

### Operating Temp

- 40° C to + 75° C

### Weather Protection

IP67

## INTEGRATION & DATA

### Control I/O

Gigabit Ethernet

### Power I/O

Snap Lock 12 Pin Connector

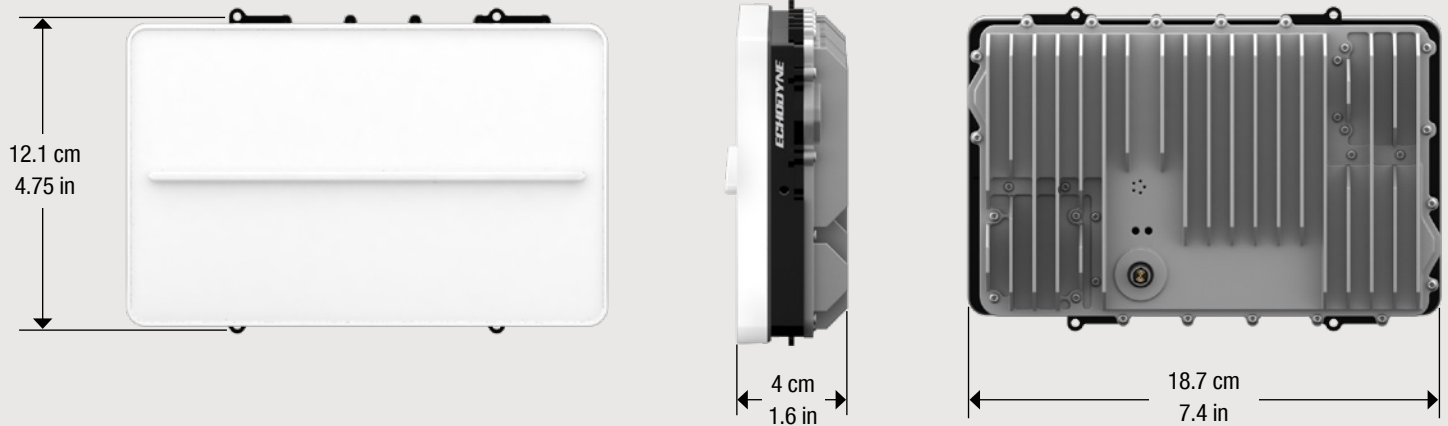
### Data Output

R/Vmaps: 40 MBps

Detections: 1 MBps

Measurements: 1 MBps

Tracks: 25 KBps

**RADAR DIMENSIONS****ORDERING DETAILS**

FCC ID: 2ANLB-MESADAA00051

☐ WHITE 700-0005-201-100

## Software & Support

**SOFTWARE UPDATES**

### Continuous Improvement from Software-Defined Radar

- Includes All Major and Minor Releases
- Improve Radar Operations
- Enhanced Classification
- Radar Data Visualization Tools
- Radar Support Tools

**TECHNICAL SUPPORT**

### Priority Access to Radar Support

- Review and Training Sessions
- Systems Integration
- Troubleshooting
- Performance Review
- Planning

**PRIORITY TECHNICAL SUPPORT**

Priority queuing via company match when using support@echodyne.com.

**CUSTOMER PORTAL**

24/7 access to all tools, manuals, and materials.

**PERFORMANCE ENHANCEMENT**

Continuous improvements through software development.

**USER COMMUNITY**

Submit requests for features and functionality.