



EchoFlight[®]

4D Airborne Radar

Ultra-Low SWaP

Un/tethered Drone Surveillance

Drone Interceptor Applications

Lightweight Metamaterials ESA (MESA[®]) 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

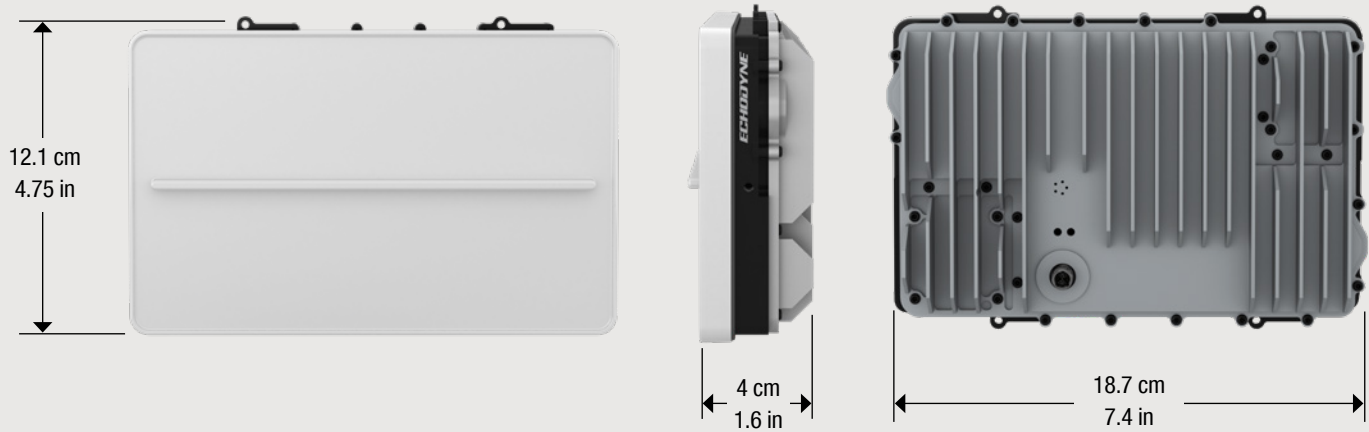
R/Vmaps: 40 MBps

Detections: 1 MBps

Measurements: 1 MBps

Tracks: 25 KBps

RADAR DIMENSIONS



ORDERING DETAILS

WHITE Bright White

700-0005-201-100

REGULATORY

FCC ID:
2ANLB-MESADAA00051

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



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.

TECHNICAL SUPPORT

Priority Access to Radar Support

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