

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

INTEGRATION & DATA

Control I/O Gigabit Ethernet

Power I/O Snap Lock 12 Pin Connector

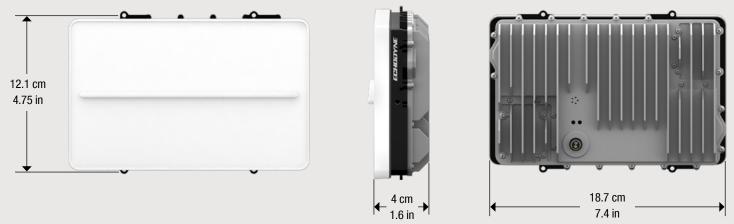
Data Output R/Vmaps: 40 MBps Detections: 1 MBps Measurements: 1 MBps Tracks: 25 KBps







RADAR DIMENSIONS



ORDERING DETAILS

FCC ID: 2ANLB-MESADAA00051

WHITE 700-0005-201-100

Software & Support

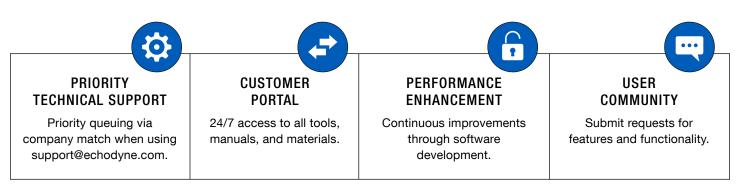
SOFTWARE UPDATES

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





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