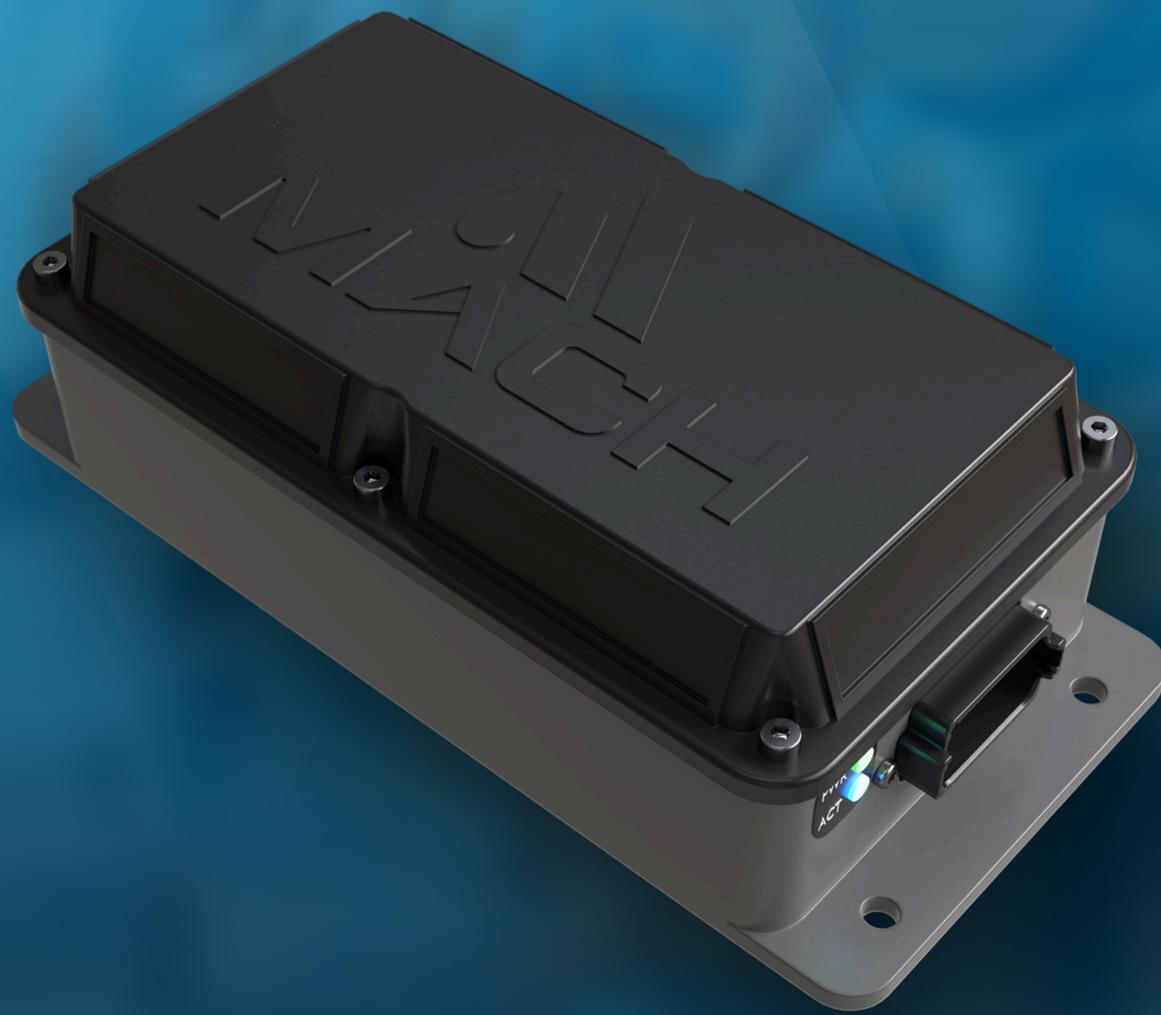




RADX



<https://mach.io/solutions/>

RadX, Mach's patent-pending phased array radar product, employs an array of individually controlled antenna elements. By adjusting the phase and amplitude of the signals emitted by each antenna element, the radar beam's direction and characteristics can be precisely controlled. Key features of RadX include beam steering, improved resolution and accuracy, adaptive beam forming, and a scalable, modular design.

APPLICATIONS

Tillage job
quality sensing



Object detection
through vegetation
& dust



3D sensing
in harsh
environments

Height control through
vegetation and dust



TILLAGE SENSING

Depth sensing from 0.5m
to 2.0m



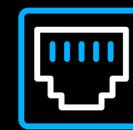
DETECTION

5m obstacle detection



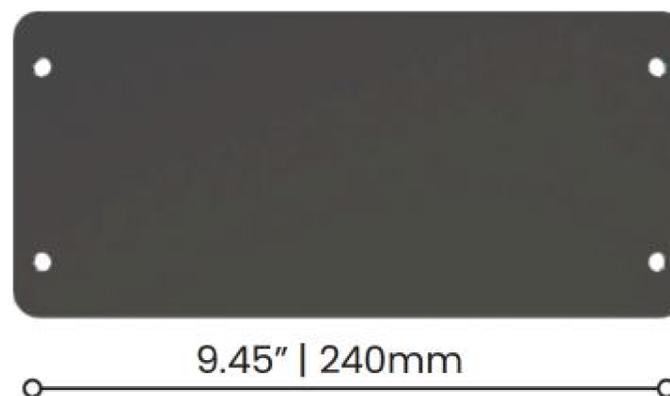
DESIGN

Designed to meet
MIL-STD-810



CONNECTIVITY

9-32VDC, 6A max with
Ethernet (10/100Base-TX)



RUGGED DESIGN

- ✓ Enclosure sealed to IP67
- ✓ Designed to meet MIL-STD-810
- ✓ Operating temperature: -30°C to +70°C
- ✓ Storage temperature: -40°C to +85°C

OBSTACLE DETECTION

- ✓ Max range: 5m Obstacle detection
- ✓ FOV: 120° (H) x 30° (V)
- ✓ Obstacle detection rate > 10Hz

WIRED I/O

- ✓ Input power: 9-32VDC, 6A max
- ✓ CAN (1x)
- ✓ Ethernet (10/100Base-TX)

TILLAGE SENSING

- ✓ Depth sensing from 0.5m to 2.0m, ±1cm
- ✓ Organic matter depth sensing up to 2.0m
- ✓ Tillage surface map FOV: 60° (H) x 30° (V)