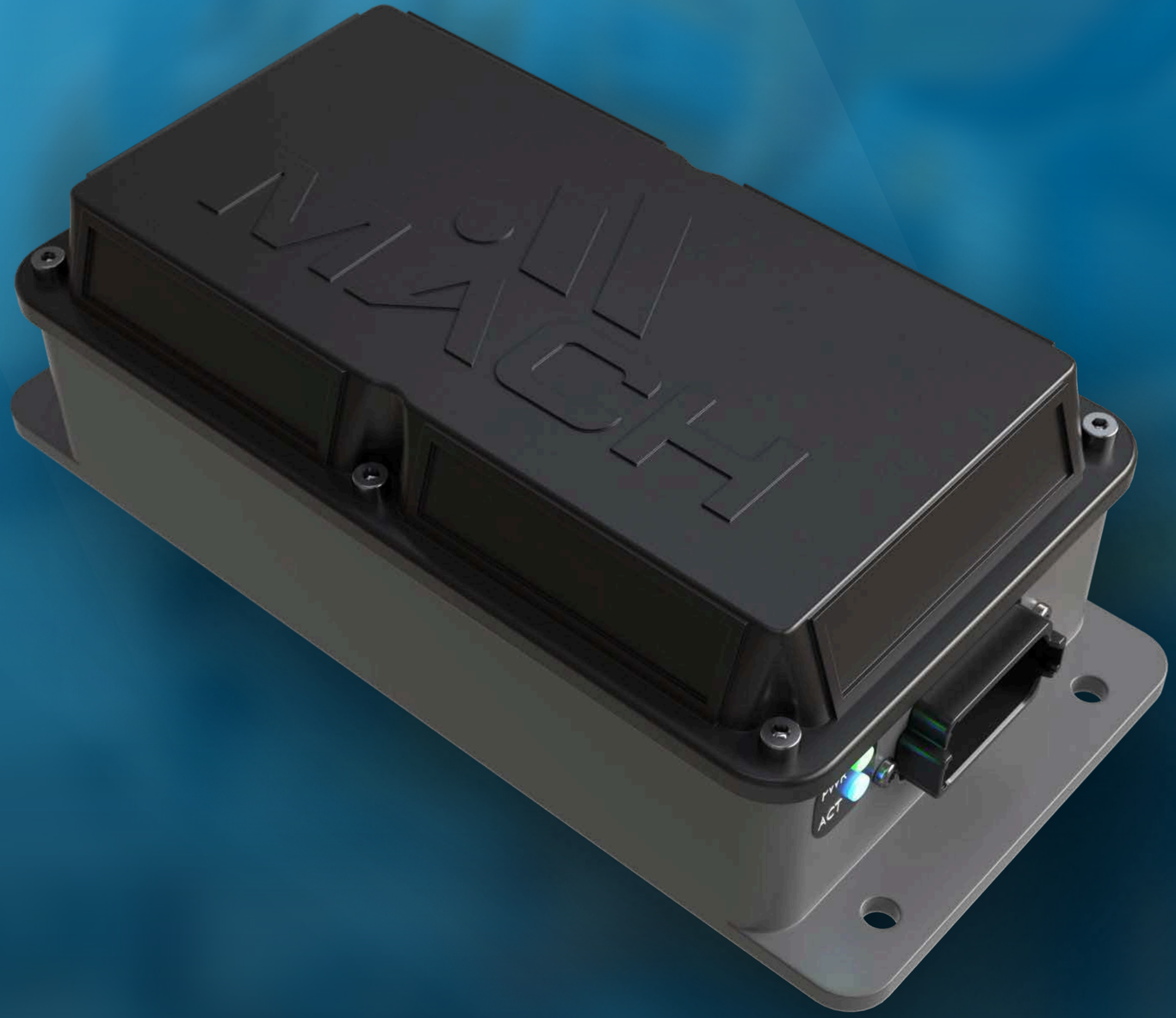
MACH

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.

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APPLICATIONS

Tillage job quality sensing

Height control through vegetation and dust

Object detection through vegetation & dust

3D sensing in harsh environments

TILLAGE SENSING

Depth sensing from 0.5m to 2.0m

DETECTION

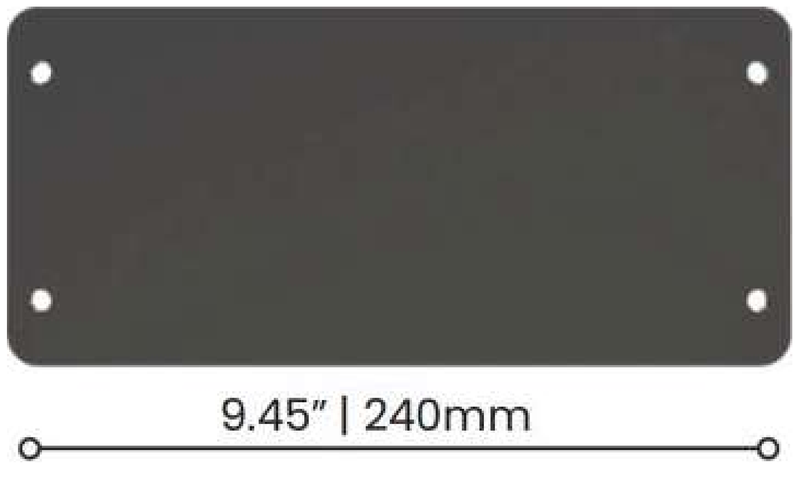
5m obstacle detection

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

WIRED I/O

Input power: 9-32VDC, 6A max

CAN (1x)

Ethernet (10/100Base-TX)

OBSTACLE DETECTION

Max range: 5m Obstacle detection

FOV: 120° (H) x 30° (V)

Obstacle detection rate > 10Hz

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)