



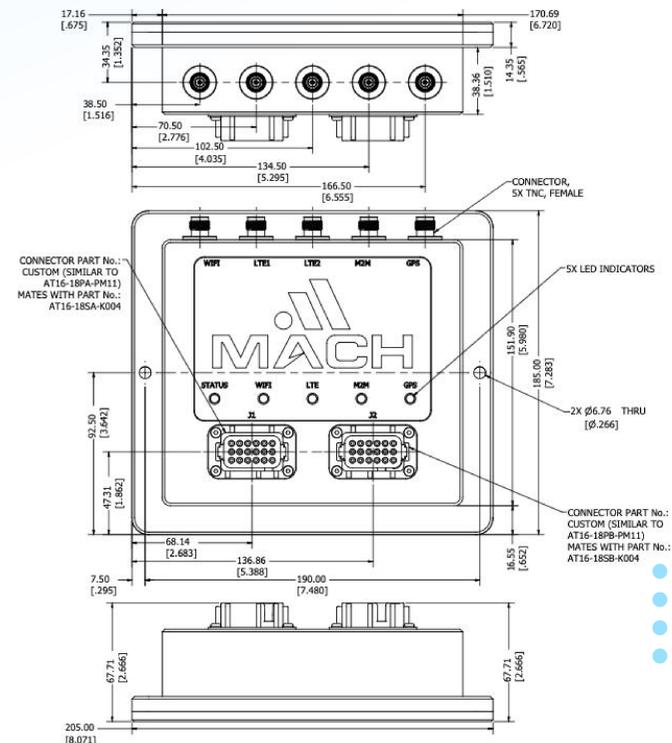
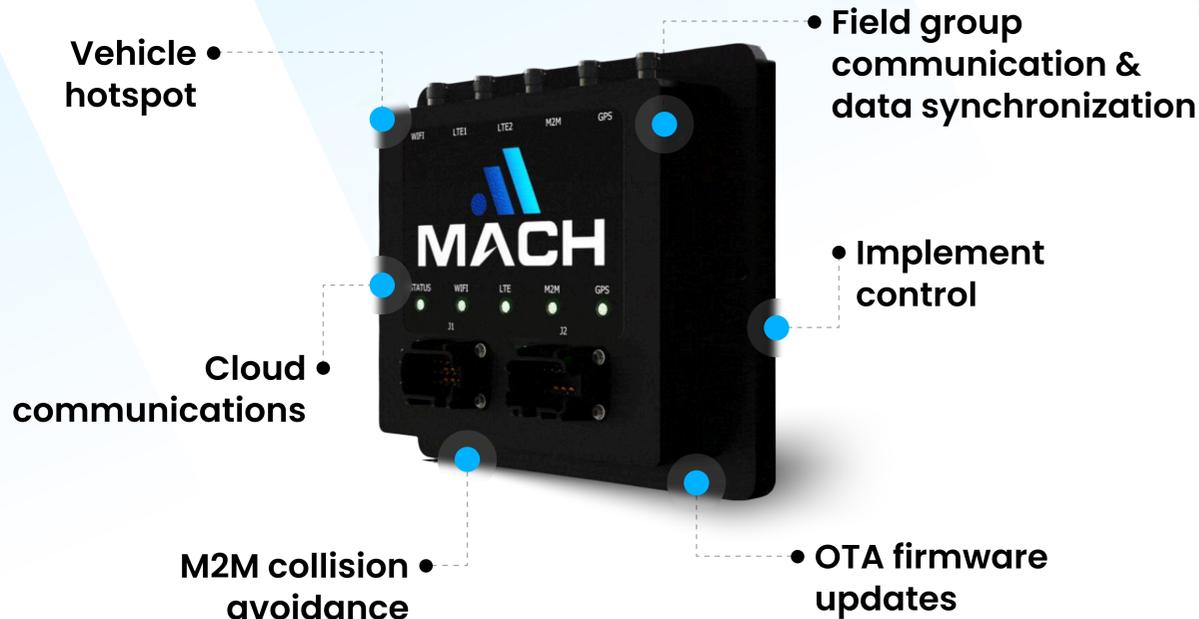
NEXUS



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

Mach Nexus is an enhanced telematics gateway integrating LTE, Wi-Fi, Mesh Radio, sub-GHz machine-to-machine connectivity, and efficient processing into a single rugged design. Developed for off-road agricultural, construction, & industrial machines, it provides onboard processing and secure connectivity for applications in a wide range of scenarios. Equipped with a cloud-based management platform, it offers over-the-air (OTA) updates and security, as well as in field online or offline machine to machine networking & monitoring for autonomous control, logistics, and asset tracking.

APPLICATIONS



DATA PROCESSING

Dual Core 650 MHz ARM Cortex A7



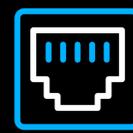
RUGGED DESIGN

Designed to meet MIL-STD-810



DATA STORAGE

512MB DDR3 RAM & 4GB eMMC Flash



CONNECTIVITY

9-32VDC, 3A max. (6A if motor driver enabled)

WIRELESS CONNECTIVITY

- ✓ Three radios allow simultaneous communications over LTE, Sub GHz M2M Radio, 2.4GHz, or 5GHz
- ✓ 4G LTE Cat 1 with 3G fallback
- ✓ Wi-Fi 5 (802.11ac)
- ✓ Sub-GHz radio
- ✓ GNSS receiver
- ✓ Machine to machine (M2M) mesh capable

RUGGED DESIGN

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

DATA PROCESSING

- ✓ Microprocessor: Dual Core 650 MHz ARM Cortex A7
- ✓ Real Time MCU: 209 MHz Cortex M4

DATA STORAGE

- ✓ Memory: 512MB DDR3 RAM
- ✓ Storage: 4GB eMMC Flash

WIRED CONNECTIVITY/I/O

- ✓ Input power: 9-32VDC, 3A max. (6A if motor driver enabled)
- ✓ CAN (2x)
- ✓ Separate uplink and downlink Ethernet connections (10/100Base-TX)
- ✓ 2Amp motor driver (1x)
- ✓ Single pair, 100/1000Base-T1 Ethernet
- ✓ Analog inputs (3x)