

Motor Vehicle Asset Communicator (MVAC)

Wireless, Automated Control, Tracking & Monitoring of Vehicles

GENERAL FEATURES

- Integrated micro-computer with highly configurable firmware to achieve a wide range of asset management goals
- Industry's lowest-profile and most secure/invisible installation - on any certified make/model; Plugs easily and quickly (in under 2 minutes) to the vehicle's 16-pin OBDII connector (J1962), and secured behind the dash, including patented connector-locking mechanism and installation-time LEDs
- Automatically records and uploads/downloads key vehicle data (latitude/longitude, current fuel level, current odometer, mileage since last refuel, VIN, fault codes, etc.) via encrypted cellular data (based on low-bandwidth CoAP IoT protocol)
- Responds to encrypted cellular commands to perform vehicle actions (including lock, unlock, immobilize, honk horn, and/or flash lights)
- Automated, cellular re-programmability to ensure each device supports installation on any certified vehicle
- Compatible with most standard – and some non-standard - automotive bus protocols available on the J1962 port
- Low power operation under normal conditions; reduced power operation with vehicle off; 'critical mode' operation (if vehicle is unused for extended durations) prevents vehicle battery drain – yet supports BLE wakeup
- Includes BLE radio for 'out of cellular' communication, 3-axis accelerometer with gyroscope for impact monitoring and driver behavior analysis
- Enables real-time identification of fleet if lost or stolen via GPS and can monitor if fleet is driven outside of legally allowed locations



Motor Vehicle Asset Communicator (MVAC) continued

General Specifications

Dimensions: 3.00" x 2.00" x 1.50"

Weather Resistance: Dustproof

Operating Temperature Range: -30° to +75° C

Vibration: SAE J1455

Input Voltage: 9-16V DC (powered from OBD-II port)

MVAC Power Consumption: 10 to 40 mA depending on mode

Back-up Battery Life: unlimited (data stored in Flash memory)

Clock: Real-time (accurate to ±2 seconds per day while on location)

Diagnostics: Wireless equipment health monitoring, 2 color, external LED indicators

RF Specifications

Cellular Radio: LTE (CAT 1 – B2, B4, B5, B12, B17); 3G (B2, B5)

Bluetooth: BLE 4.2 (worldwide certification)

GPS: (GPS GLONASS support)

Antennas: embedded fully inside device enclosure

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