

# Morey MC-4 Product Series

Powered Asset Telematics

## ADVANTAGES

### WORLDWIDE REACH

- AT&T 4G LTE CAT 1 w/3G fallback
- Bluetooth Smart Ready v4.2
- Multi-constellation global position
- UDR for continuous positioning
- User interface options: Bluetooth, USB, UDP, SMS & other protocols
- USB OTG w/500mA Output (high-side driver)
- Over-the-Air (OTA) Programming, Provisioning, Status Inquiry & Log Retrieval
- Multi-thread scripting options
- Automatic reporting (periodic or event based)
- Selectable modes of operation
- Internal fault management and logging

### INTERFACE CAPABILITIES

- Interfaces to most light/med/heavy vehicles
- Class I-VIII vehicles
- Dual CAN support
- 12V & 24V power systems
- Customizable Interconnect Cables & Harnesses

### RUGGEDNESS

- SAE J1455 Level 1
- FM Class 1, Div 2 non-incendiary
- Sealed to IP67

The all-new MC-4 Series, including MC-4 and MC-4+, are Morey's latest telematics devices designed to log and store diagnostic, power and locational data for single and mixed fleets—collecting data for up to seven days, powered or not, and supporting almost any asset in even the most rugged environments.

Fleet managers can seamlessly access data from across the globe using Bluetooth, GPS and 4G LTE technologies and UDR, while drivers can electronically log hours-of-service and track and share records of duty data to maintain compliance with the FMCSA's ELD mandate. The IoT hardware plug-and-play deployment also allows users to easily install the device, customize datasets, and begin receiving data immediately. With flexible, custom-off-the-shelf configuration, the MC-4 series is an ideal solution for OEM-level, enterprise and after-market applications.

### THE MC-4+ DIFFERENCE

Both MC-4 Series telematic products offer the same innovative features, however, the MC-4+ has two advantages—designed to withstand the most rugged environments and conditions, like extreme flooding:

- Rechargeable backup battery which allows the device to store data even if the asset being tracked is powered off for more than a week
- More robust mechanical enclosure sealed to IP69K

## MC-4 SPECIFICATIONS

### DETECTION CAPABILITIES

- Digital I/O and analog I/O options w/sensor support
  - 4DI
  - 2DO
  - 1AI
- Detect and report: aggressive driving, distance traveled, idle, engine state, geofence state, heading change, motion, speed bands
- 6 Degrees of Freedom
  - 3D digital accelerometer
  - 3D digital gyroscope

### GPS DEVICE SPECS

- Position Accuracy: 3m
- Hot Start Acquisition: ~2 secs
- Tracking Sensitivity: -160 dBm
- Acquisition Sensitivity: -146 dBm
- Update Rate: 1Hz

### ELECTRICAL SPECS

- Operating Voltage: 12V & 24V systems

### PHYSICAL SPECS

- Dimensions (Metric): approx.. 15cm x 7.5cm x 2.3cm
- Dimensions (US): approx.. 6" x 3" x 1"
- Weight: 0.6 lbs.0.275 kg

### ENVIRONMENTAL SPECS

- Operating Temperature: -40° to 85°C
- Storage Temperature: -40° to 85°C
- Battery load dump protected
- ESD immunity
- EMC/EMI: CISPR 25; Industry Canada
- SAE J1455 Level 1 Pressure Wash
- IP67

### INPUT/OUTPUT

- Digital I/O (maximums)
- Analog Input
- (6) digital inputs (STB / STG)
- 5V Output
- Digital Output
- Diagnostic Port: USB
- Status LEDs: Red, Amber, Green & Blue
- Twilight Sensor: Dimming LEDs
- Bluetooth

### MEMORY

- 30-90 Day Store-Forward Capabilities

### VEHICLE INTERFACE

- (2) CAN 250k, 500k
- J1708
- ISO9141-2
- KWP2000
- J1850 VPW & PWM
- Vehicle Protocols
  - J1939
  - J1587
  - OBD II