

Mapon Expert

Specification



Size and Weight

Height: 101 mm
Width: 123 mm
Depth: 22 mm
Weight: 140 g

Power and Battery

Li-ion backup battery 700 mAh
Operating voltage 10V to 30V DC
Average current consumption 250 mA

Special features

Standalone mode with intelligent memory control if connection with server not available
Intelligent data acquisition and transfer algorithm via GPRS (TCP/IP)
Smart data roaming algorithm
Realtime GPS and sensor data acquisition and transfer
Restart button
Interfacing to vehicle on-board systems
Internal 3-axis accelerometer
Internal bistable 5A relay (optional)
Internal buzzer

LEDs

Green (GPS)
Orange (GSM)
Red (Errors)

Inputs and Outputs

Digital inputs

One Input reserved for ignition status
Two positive trigger inputs (max 30V)
One negative trigger input

Analog inputs

Three analog inputs (0 to 5V)
One analog input (0 to 30V)

SMA connector for GPS antenna
1-Wire Input (up to 6 devices (temperature sensors DS18S20 and iButton))
2x CANbus interfaces
3x RS232 interfaces. (Digital fuel sensors, Garmin)
USB port for real time monitoring and configuration
1 digital output

Memory

1x 32Mbit SPI Flash memory
2x 16Mbit SPI Flash memory

GPS/GSM

Cellular

Quad band : GSM 900/1800MHz
Class 4 (+33dBm \pm 2dB) for 900
Class 1 (+30dBm \pm 2dB) for 1800
Multislot Class 8 (dual band)
Horizontal position accuracy 2.5 m
Velocity accuracy 0.1 m/s
Heading accuracy 0.5 degrees

Standard set

External GPS antenna
Documentation
Mapon Expert

Location

50 channels
GPS L1 frequency

Sensitivity

Tracking & Navigation 162 dBm
Reacquisition 160 dBm
Cold Start (without aiding) 148 dBm

Environmental requirements

Nonoperating temperature: -40° to 85° C
Relative humidity: 5% to 95% non condensing