W2TRACK | W2-BT01

SMART 2G GPS VEHICLE TRACKER



Reliable GPS tracking for motorbikes, passenger cars, rental fleets, delivery vehicles and public safety applications. Equipped with internal high-gain GNSS and GSM antennas, integrated backup battery and versatile I/O connectivity.

KEY CAPABILITIES

Fleet monitoring	Live vehicle positioning, trip history, ignition monitoring and remote digital output control
Driving & safety	Crash detection, eco-driving, overspeeding, towing, excessive idling and jamming detection
Smart connectivity	Bluetooth 4.0 + LE support for compatible sensors and peripherals
Applications	Motorbikes | Rental cars | Delivery transport | Public safety | Vehicle recovery

CORE TECHNICAL SPECIFICATIONS

Device / technology	W2TRACK W2-BT01 | GSM / GPRS / GNSS / Bluetooth LE
GNSS systems	GPS, GLONASS, Galileo, BeiDou, SBAS, QZSS, DGPS, AGPS
Receiver / sensitivity	33 channels | -165 dBm tracking sensitivity
Position / velocity accuracy	< 2.5 CEP | < 0.1 m/s (within +/- 15% error)
GNSS start times	Hot < 1 s | Warm < 25 s | Cold < 35 s
Cellular network	2G GSM quad-band: 850 / 900 / 1800 / 1900 MHz
Data communication	GPRS Multi-Slot Class 12 (up to 240 kbps), Mobile Station Class B; SMS text/data
Supply / backup	6–30 V DC with overvoltage protection | 170 mAh Li-ion (0.63 Wh)

OEM specifications for model W2-BT01 are subject to change based on the latest updates.

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DETAILED SPECIFICATIONS

HARDWARE & CONNECTIVITY

Dimensions / weight	78.15 x 42.75 x 21 mm (L x W x H) | 69 g
Inputs / outputs	1 digital input | 1 analog input | 1 digital output
Antennas	Internal high-gain GNSS and cellular antennas
Interfaces	Micro-USB 2.0 | Micro-SIM | 1 status LED
Internal memory	128 MB flash memory
Bluetooth	Bluetooth 4.0 + LE; EYE beacon/sensor, headset, OBDII dongle, compatible BLE sensors and peripherals

POWER CONSUMPTION AT 12 V

Ultra Deep Sleep / Deep Sleep	< 2 mA / < 4 mA
Online Deep Sleep / GPS Sleep	< 5 mA / < 6 mA
Nominal, no load	< 25 mA

OPERATING CONDITIONS

Operating / storage temperature	-40 °C to +85 °C (without battery)
Humidity / protection	5–95% non-condensing | IP54
Battery charge / discharge	0 °C to +45 °C / -20 °C to +60 °C
Battery storage	-20 °C to +35 °C for 1 month; -20 °C to +30 °C for 6 months

SOFTWARE FEATURES & MANAGEMENT

Sensor & event scenarios	Accelerometer; green driving, overspeeding, jamming, GNSS fuel counter, excessive idling, unplug, towing, crash detection, auto/manual geofence and trip
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration / updates	FOTA Web, FOTA, USB / Bluetooth configurator, mobile configuration
Remote commands	SMS and GPRS configuration, digital output control and debugging
Time / ignition / fuel	GPS/NITZ/NTP synchronization; ignition via DI1, accelerometer, voltage or OBDII RPM; analog LLS or OBDII fuel monitoring

For more information or sales-related queries, please contact the W2TRACK Team and visit us at www.w2track.com.