

66 Channels GPS Bluetooth Data Logger

Product Brief



66 Channels MTK GPS Bluetooth® Receiver with Data Logger Functionality

GENERAL DESCRIPTION

The device is the industry leading Bluetooth GPS receiver that offers simultaneous use of real-time GPS reception and data logging. The device features extended battery life, (up to 16 hours) with rechargeable battery and increased memory size, (4MB) it can interface with any Bluetooth-enable mobile device to provide GPS data to applications. It is capable of keeping up to 250,000 records or positions, including longitude, latitude, speed, UTC, and tag data. The log file can be downloaded for analysis via high-speed USB connection, the location histories can also be exported to mapping software such as Google Earth or Locr. It can be used as a wireless and mobile data logger for asset tracking, fleet management, heavy logistics and dangerous goods transportation.

APPLICATIONS

- Navigation
- Asset Tracking
- Telematics
- Fleet Management
- Sports and Recreation

KEY PRODUCT FEATURES

- Built-in the latest MTK MT3329 GPS single chip
- Channels: 66 acquisition/22 simultaneous tracking
- Cold/Warm/Hot Start time: <35/<34/<1.5 seconds (Autonomous)
- Superior sensitivity: -165dBm tracking
- Built-in rechargeable Li-ion battery
- Support standard NMEA-0183 at 38400 bps baud rate
- Compatible with Bluetooth devices with Serial Port Profile (SPP)
- 4M Bytes flash memory for data logging, with 16 bytes binary data per record that stores up to 250K data records
- Log data can be exported to mapping software such as Google Earth and Locr
- Logging data interval programmable: by time or distance
- Data tag (start, stop point) can be set by user, maximum 250 sections
- Support G-mouse function via USB cable
- Vibration sensor for power management (auto power on or goes to sleep mode)
- Low power consumption: 16 hours continuous use by 900mAh battery
- Time to full recharge: within 3 hours

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SPECIFICATIONS

GPS Features

Chipset	MTK MT3329 GPS single chip
Frequency	L1, 1575.42MHz
C/A Code	1.023MHz chip rate
Channels	66 acquisition/22 simultaneous tracking
Antenna (Internal)	Built-in low noise patch antenna

Sensitivity

To -165dBm tracking, superior urban canyon performance

Time to First Fix (TTFF)

Cold Start	<35 sec, average
Warm Start	<34 sec, average
Hot Start	<1.5 sec, average
Reacquisition	<1 sec
Update Rate	1 Hz

Accuracy

Position	3m 2D-RMS, without SA
Velocity	0.1m/sec, without SA
Time	<100ns synchronized to GPS time

Power

Built-in rechargeable 900mAh Li-ion battery and 5V DC input

Operation Current	~57mA (Typical)
Operation Time	16hrs, fully charged, in continuous mode
Sleeping Mode	Sustain more than 2000 hours
Charging Time	3.0hrs. (Typical)

Environmental Characteristics

Operating Temperature	- 20°C to + 60°C
Storage Temperature	- 20°C to + 85°C

Datum

WGS-84

Dynamic Conditions

Altitude	<18,000 m (60,000feet)
Velocity	<515 m/s (1000 knots)
Acceleration	<4G
Motional Jerk	20m/sec ³ max.

Interface

Communication Protocol: Communicate with host platform via Bluetooth (class 2) serial port profile
Bluetooth communication distance 10meters (Typical)
GPS Protocol: Default: NMEA-0183 - RMC
Data bit: 8, stop bit: 1 (Default)

Device Size and Weight

77.4 (L) X 46.3 (W) X 22.5 (H) mm
3.05 (L) X 1.82 (W) X 0.89 (H) inch
68g (battery included)

Accessories

Car charger (12V in, 5V output)
AC adaptor (5.3V output, 500mA)

Data Logger

Log 249,856 records in flash memory (4M bytes)
Log data: NMEA format (Longitude, Latitude, Speed, UTC, Tag)
Output data format: WGS84 2-degree transverse mercator
Mapping software: a. Google Earth b. Locr c. *.csv (logdata.csv)
Log interval: by time (1sec~30mins) or distance (2~65535meters)
Vibration setting: disable/high/middle/low sensitivity
Goes to sleep mode if vehicle stays still for 15 minutes
Auto power on in 3 sec. when detecting vibration

All specifications are subject to change without notice