



CD111M

66 Channels MTK GPS Data Logger

GENERAL DESCRIPTION

The CD111M is the industry leading GPS data logger that offers simultaneous use of real-time GPS reception and data logging. The CD111M features extended battery life, (up to 18 hours) with rechargeable battery and increased memory size. (4MB) The CD111M 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 TrackMaker.

It can be used as a 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
- 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 TrackMaker
- 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)
- Ultra low power consumption: 18 hours continuous use by 900mAh battery
- Time to full recharge: within 3 hours

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 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	~50mA (Typical)
Operation Time	18hrs, fully charged, continuous mode
Charging Time	3.0hrs. (Typical)

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

GPS Protocol: Default: NMEA-0183 - RMC

Data bit: 8, stop bit: 1 (Default)

Environmental Characteristics

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

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
66g (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. TrackMaker 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

REVISION HISTORY

Revision	Date	Comments
V1.09	16_Jan_2009	First release

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