

UBS-110 Bluetooth GPS Data



Key Functions & Features

- Bluetooth GPS receiver and GPS data logger all in one
 - Optional Flash memory 4 MBytes/8 MBytes/16 Mbytes
 - Data upload/download via mini USB
 - Motion sensor for auto power saving mode: the device switches on/off when it is moving/motionless.
 - Power mode setting: GPS on only or bluetooth and GPS both on
- Support Speaker Sound, LED indications
 - Ultra low power consumption, up to 22hours of continuous use with battery fully charged
 - Rechargeable 1100mA Li-ion battery with the original made-in-Japan battery cells
 - Cold/warm/hot start (42/38/3~6 seconds)
 - 16 channels "All-in-View" tracking.
 - Compatible with bluetooth enabled devices with Serial Port Profile (SPP)
 - High sensitivity: -152dbm
 - Build-in High Gain antenna
 - Data format: longitude, latitude, speed , UTC
 - GPS trace interval time setting from 1sec ~ 30 minutes
 - GPS Trace data by distance interval 2~65535 meters

Power Consumption for Different Power Setting Mode

Mode	Status	Max.	Min.	Avg.
GPS+BT	BT connecting	89.1mA	42.9mA	50.4mA
GPS+BT	BT disconnecting	67.3mA	42.2mA	46.1mA
GPS only	GPS connecting	45.8mA	40.2mA	41.1mA
GPS only	GPS disconnecting	43.8mA	38.2mA	39.1mA
Auto power saving	Power off	0.42mA	0.41mA	0.41mA

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Specifications

General GPS Chip NEMERIX GPS Module Frequency L1, 1575.42MHz C/A Code 1.023MHz chip rate Channels 16 CH all in view tracking Internal Antenna Built-in low noise I/O External antenna port MMCX Mini.USB 1.1/2.0(12Mb) Audio Output Speaker: 1Watt / 8 ohm LED: bluetooth, GPS, power status	Accuracy Position 3meters CEP (50%), without SA (Horizontal) 7 meters (90%) Velocity 0.1 m/sec. without SA Time ±100 ns synchronized to GPS time Datum WGS-84 (or by demanded) Sensitivity To – 152 dBm Dynamic Conditions Altitude <18,000m Velocity <515m/sec Acceleration <4g Motional Jerk 20 m/sec.
Acquisition Rate Cold Start 45 sec, average Warm Start 35 sec, average Hot Start 5 sec, average Reacquisition 1 sec, average	Interface <u>Communication Protocol</u> Communicate with host platform via Bluetooth (class 2) serial port profile Bluetooth communication distance 10 M. TYP. <u>GPS Protocol</u> NMEA-0183 (V3.01) – GGA(1), GSA(3), GSV(3), RMC(1),VTG(1), Baud rate 38400 bps, Data bit: 8, stop bit : 1(Default) * * (1):1sec output 1msg , (3): 3sec output 1msg
Power Built-in rechargeable 1100 mAh Li-ion battery 5 V DC input Operation Current 45 mAh (Typical) Operation Time 22 hrs, fully charged Charging time 3 hrs. (Typical)	Device Size Dimension: 76 (L) X 46 (W) X 20 (H) mm Weight: 50g (without battery)
Environmental Operating Temperature - 20 °C to + 60 °C Relative Humidity 5% to 90% non-condensing	
Accessories Car charger (12V in, 5V output) AC adaptor (5.3V output, 500ma)	

UI Function

