

Bluetooth GPS Speed Camera Reminder



BTS-100

Key Functions & Features

- Bluetooth GPS receiver and speed camera reminder all in one
 - Speed camera and speeding voice reminder
 - Speed camera data base (POI: Point of Interest) upload/download via mini USB
 - Customize data base with user utility software
 - Optional Flash memory 4 MBytes/8 MBytes/16 Mbytes
 - Motion sensor for auto power saving mode: auto power on/off when the device is moving/motionless.
- 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

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

Specifications

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

UI Function

