

CBTGPS32

Bluetooth 51 channel GPS adapter



Technical Specification Sheet

1. Key Features

- 51-channel Bluetooth GPS receiver.
- Up to 25 hours of navigation time.
- Smart Power Save Mechanism (Transystem Patent Pending).
- Fuzzy Auto On/Off (Transystem Patent Pending).
- Slim & fashion look

2. Appliance

- Automotive.
- Fleet management / Asset tracking.
- Personal / portable navigation (PDA, Smart phone).
- Location Based Services.
- Sports and recreation.
- Geographic surveying.

3. Product Specifications

3.1 General

- GPS Chip : MTK GPS
- Frequency : L1, 1575.42MHz
- C/A Code : 1.023MHz chip rate
- Channels : 51 CH all in view tracking
- Antenna (internal) : Built-in patch antenna with LNA
- Sensitivity (tracking) : -158 dBm
- Operation Current : Acquisition : 55.1mA
Tracking : 30.3mA
- LED function : Bluetooth connection
Navigation update
Battery / charger status indication
- Certification : CE / FCC

3.2 Acquisition Rate

- Cold Start : 36 sec, average
- Warm Start : 33 sec, average
- Hot Start : 1 sec, average
- Reacquisition : < 1 sec

3.3 Accuracy (none DGPS)

- < 3 meters Static CEP 50
- DGPS (WAAS, EGNOS, MSAS) : 2.5m
- Velocity : 0.1 m/sec, without SA
DGPS : 0.05m
- Time : ± 50 ns synchronized to GPS time

3.4 Dynamic Conditions

- Altitude : < 18,000m
- Velocity : < 515 m/sec
- Acceleration : < 4g
- Motional Jerk : 20 m/sec

3.5 Power

- Built-in rechargeable 1000mAh Li-ion battery.

3.6 Interface

- Bluetooth : Version 1.2 compliant
Class 2 (10 meter in free space)
Frequency : 2.400 to 2.480 GHz
- Power On/Off : Slide switch
- Antenna Port : none
- Power Charge : Mini USB

3.7 GPS Protocol

- NMEA-0183 (V3.01) - GGA, GSA, GSV, RMC (default)

4. Physical & Environmental

- Dimensions (L x W x H) : 72.01 x 45.02 x 19.80 mm
- Operating Temperature : -10 to 60 °C
- Storage Temperature : -20 to 60 °C
- Charging Temperature : 0 to 45 °C
- Relative Humidity : 5 - 90% non-condensing