



EMTAC Bluetooth GPS Receiver

Technical Specification: S3BTGPS

❖ General:

Frequency: L1, 1575.42 MHz.

C/A: 1.023 MHz chip rate

Channels: 20 Channel all-in-view tracking.

DGPS Source: Default: None

System Back Up: Built-in Lithium-Ion rechargeable battery

Antenna Type: Built-in Antenna (external antenna optional)

❖ Accuracy: (DGPS:None)

Position: 10 meters RMS without SA

Velocity: 0.1 meters/second, without SA

Time: 1 microsecond synchronized to GPS time

Datum: WGS-84 (or by demand)

❖ Acquisition Rate: Open Sky and Stationary

Reacquisition: 0.1 sec., average

Cold Start: < 42 sec., average

Warm Start: < 38sec., average

Hot Start: < 1 sec., average

❖ Dynamic Conditions:

Altitude: < 18,000 meter

Velocity: < 515 meter/second

Acceleration: < 4g

❖ Interface:

Connection: Communicates with Host Platform via
Bluetooth(Class2) Serial Profile

Protocol: Default: NMEA-0183 (V2.20)- GGA(1), GSA(1),
GSV(5), RMC(1)

(n): n is the update interval in seconds

Programmable: additional NMEA- VTG, GLL / SiRF
Binary

❖ Power:

Powered by: 650mAh Lithium-ion rechargeable battery, 5V DC
power, AC power

Operation time: Default: 6hr. (min.) After full charged, in Continuous
mode

Programmable: >6hr.

*Depend on duty-cycle setting in trickle power mode

❖ Device Size and Weight:

50(W) x 90(L) x 17(H) mm

60 g

❖ Environmental:

Operating Temperature: -20°C to + 60°C

Relative Humidity: 5% to 95%, non-condensing.

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