

XGPS

Datasheet



The XGPS is a combination of a QSTARZ BT-Q818XT GPS and our holder for the SVC series of carts. This unit is included as standard with all our complete systems. We have selected the BT-Q818XT for its outstanding combination of performance and price.

Features:

- 66-Channel Performance for fast acquisition and reacquisition.
- Super high sensitivity -165dBm adopting latest MTK II chipset.
- Lower power consumption up to 42hrs navigation time.
- 10Hz update rate for higher accuracy of the demand of quick moving surveys.
- Less than 15-Sec. AGPS fix support : download almanac data to realize faster TTFF and positioning under warm start.
- G-Mouse + Bluetooth in one: wired and wireless GPS receiver.
- 3-level switch(10Hz-1Hz-Off) for easy operation.

- Fast Position Fix ,Cold start 35s, Warm start 33s,Hot start 1s.
- Personal/Portable Navigation (PDA, Smartphone, PC, etc.).
- DGPS(WAAS+EGNOS+MSAS) support.
- Auto On-Off function for smart power control.

*10Hz update rate: Update GPS satellite data per 0.1 second.





Area of Application

- Geotechnical and environmental surveys geolocation.
- Leakage or soil contamination surveys.
- Large utility location surveys.

Mechanical and Environmental Specifications

Dimensions LxWxD (mm/inches)	72.2x46.5x20 / 2.84x1.83x0.78
Weight (g/oz)	41 / 1.48
Fastening points Diameter (mm/inches)	30 / 1.18
Charging Temperature (°C / °F)	from 0 up to +45 / from 32 up to 113
Operating Temperature (°C / °F)	from -10 up to +60 / from 14 up to 140
Storage Temperature (°C / °F)	from -20 up to +60 / from 4 up to 140

Electrical Specifications

GPS Chip	MTK II GPS Module
Frequency	L1, 1575.42MHz
C/A Code	1023MHz Chip Rate
Channels	66-CH Performance Tracking
Antenna Type	Internal Patch Antenna with LNA
Sensitivity Tracking	-165dBm
Power	Built-in Rechargeable Li-Ion battery
Power Charge	Mini-USB
Operation on fully charged battery	42h
Charging Time	3h

Dynamic Specifications

Cold Start Acquisition Rate	35 sec
Warm Start Acquisition Rate	33 sec
Hot Start Acquisition Rate	1 sec average
AGPS	<15 sec Fix
Update Rate	1 or 10Hz, selectable
GPS Protocol	NMEA-0183 (v3.0.1)
Datum	WGS-84

Accuracy and Communications

- Without aid 3m 2D-RMS
- <3m CEP (50%) without SA Horizontal
- DGPS (WAAS, EGNOS, MSAS), 2.5m
- 115200bps Data bit 8, Stop bit 1. Bluetooth SPP Profile, Class 2 device.

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