



Mini-S3 Bluetooth GPS Receiver Technical Specifications*

Chipset:	SiRF Star III
General	
Frequency:	L1, 1575.42 MHz
C/A:	1.023 MHz chip rate
Channels:	20 channel all-in-view tracking
DGPS Source	Default: none
	Programmable: WAAS/EGNOS
System Back Up:	Built-in Li-Ion rechargeable battery
Antenna Type:	Built-in
Accuracy	
DPGS:	1-2 meters
Position:	1-5 meters CEP, 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, stationary
Reacquisition:	< second, average
Cold Start:	42 seconds, average
Warm Start:	35 seconds, average
Hot Start:	1 second, average
Dynamic Conditions	
Altitude:	< 18,000 meters
Velocity:	< 763 meters/second
Acceleration:	< 4g
Interface:	
Connection:	Communicate with Host Platform via Bluetooth (Class 2) Serial Profile
Protocol	Default: NMEA-0183 (v3.1.1) – GGA (1), GSA(1), GVS(5), RMC(1), VTG(1)
	Programmable: Additional NMEA –VTG, GLL/SiRF Binary
Power:	Built-in rechargeable battery & 5V DC input charging circuit
Operation Time	Default: 8 hours (min.) after fully charged, in continuous mode
	Programmable: >8 hours (Depends on duty cycle setting in trickle power mode)
Device Size:	68 (L) x 48 (w) x 18(H) mm
Environmental:	
Operating Temperature:	-20° C to +60° C
Relative Humidity:	5% to 95%, non-condensing



* The specifications are subject to change without notice.