RightWay

Trine XL Bluetooth GPS Receiver & Data Logger
Technical Specifications*

Chipset:	SiRF Star III

General
Frequency:	L1, 1573 MHz
Channels:	20 channel all-in-view tracking
DGPS Source	**Default:** none
	Programmable: SBAS/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:	0.1 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 & USB
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	**Charging:** 5V DC input charging circuit
	Consumption: 73 mA, continuous tracking mode
Operation Time	**Default:** 10 hours (min.) after fully charged, in continuous mode

Size
GPS	72(L) x 21(W) x 13.2(H) mm
Battery bank:	78.6(L) x 55.5(W) x 27(H) mm

Environmental
Operating Temperature:	-20° C to +60° C
Relative Humidity:	5% to 95%, non-condensing

Data Logging
Information	date, time, latitude, longitude, altitude speed
Capacity	130,000 way points; 364 hours for 10 second logging intervals
Date formats	NMEA, KML, CSV

* The specifications are subject to change without notice.