OrbitGPS

Product Data Sheet

G1030

Serial GPS Receiver

with RJ45 Connector for use with Blackbay MC70 Cradle (**Not for use with NIC cards)**

SiRFstarIII serial GPS receiver for use with Blackbay MC70 vehicle cradles with 5v DC out through RJ45 connector.

Technical Specifications

> Receiver

GPS Chipset:	SiRFstar III
Chipset Processor:	ARM7/TDMI – 49MHZ
Frequency:	L1, CA code
Signal Acquisition:	1920 time/frequency search channels
Channels:	20 Channels; all-in-view tracking
Max. Update Rate:	1Hz
Sensitivity:	-159dBm
DGPS Source:	Default: WAAS/EGNOS
System Back Up:	Built-in Lithium-Ion rechargeable battery
Antenna Type:	Built-in Antenna

> Acquisition Rate

Reacquisition:	100msec
Hot Start:	<1 second
Warm Start:	<38 seconds
Cold Start:	<42 sec

> Protocol

Default:	NMEA-0183
Programmable:	NMEA- VTG, GLL / SiRF Binary

> Power

Draw:	80mA at 3.3V; DC power adaptor
Internal Battery:	3v (for GPS module only)

> Dynamic Conditions

Altitude:	<18,000 meter
Velocity:	< 515 meter/second
Acceleration:	<4g

> User Environment

Water Seal:	IPX7
Operating Temperature:	-20°C to +60°C
Storage Temperature:	-40°C to 70°C
Humidity:	5% to 95%, non-condensing

> Physical Characteristics

Depth:	62.0mm
Width:	46.1mm
Height:	18.0mm
Weight:	95g

> Accuracy

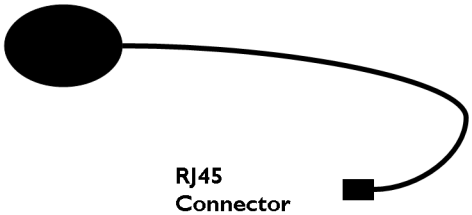
OrbitGPS receivers offer typical accuracies of 3-5 meters uncorrected, and 3 meters or better with correction.*

> Operating Systems Supported

Windows Embedded Handheld, Windows Mobile5.0 or newer, Windows Mobile /PPC 2003, Windows XP/Vista/7/8

> Part Number: G1030

Installation Schematic:



Not to Scale

* Accuracy subject to degradation based on environmental and positional conditions. Rated accuracy provides 95% Circle Error Probability (CEP) position accuracies of <5 meters with WAAS correction and <10 meters uncorrected.

For more information on the G1030 Serial GPS for Blackbay MC70 vehicle cradle, contact **OrbitGPS** at sales@OrbitGPS.com or +1.203.654.7720

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