

G3090**Snap On GPS
Receiver for
MC90XX****Rugged GPS Receiver**

SiRFstarIII serial GPS receiver “snaps” onto MC9000 series mobile computers to add GPS functionality.

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

Source:	12v/24v DC CLA
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

For more information on the **G3090 Snap On GPS Receiver for the MC90XX**, contact **OrbitGPS** at sales@OrbitGPS.com or +1.203.654.7771

**> User Environment**

Operating Temperature:	-20°C to +50°C
Storage Temperature:	-40°C to 70°C
Humidity:	5% to 95%, non-condensing
Thermal Shock:	-40°C to +70°C
Impact (Drop):	While connected to terminal: 6 ft. drop to concrete, 6 drops per 6 sides at 0°C, ambient temperature (23°C) & +50°C†
Tumble Specifications:	250 3.3ft (1m) tumbles (500 drops)
Vibration:	Sine 20-2000Hz, 4G peak

> Physical Characteristics

Depth:	38mm
Width:	80mm
Height:	101mm
Weight:	155g
Power Draw:	65mA at 4.5-5.5v
Pass through:	DC charging pass-through
RoHS:	RoHS compliant.

> Accuracy

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

> Operating Systems Supported

Windows Mobile5.0; Windows Mobile /PPC 2003,

*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.

†Low temperature drop specification for MC90XX mobile computers is -20°C.

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