



The GPS 15 sensor is designed for a variety of OEM system applications, including car navigation, wireless communications, marine

Powerful 12-channel GPS engine

navigation, mapping and more.

We designed this sensor to be small and affordable. It offers excellent EMI / RFI performance for easy integration into systems that will be operated near mobile computing devices and wireless communications equipment.





GPS 15 specifications

Electrical

Input voltage:	3.3 Vdc +/- 50 mV ripple
Input current:	85 mA peak, 80 mA nominal
Sensitivity:	-165 dBW minimum

GPS performance

Receiver:	12 parallel channel GPS receiver continuously tracks and uses up to 12 satellites to compute and update your position
Acquisition times:*	
Reacquisition:	Less than 2 seconds
Warm:	Approximately 15 seconds
Cold:	Approximately 45 seconds
AutoLocate™:	5 minutes
SkySearch:	5 minutes
Update rate:	1 to 900 seconds between updates; programmable in 1 second increments
GPS accuracy:	
Position:	< 15 meters, 95% typical**
Velocity:	0.1 knot RMS steady state
Dynamics:	999 knots, 6g's
Map datums:	108 predefined, 1 user

Interfaces

Serial interface:	
Port 1:	CMOS output for direct connection to UARTs or processor serial ports (1 = Vcc, 0 = GND)
Baud rate:	4800
Serial format:	
Port 1:	Selectable between NMEA 0183 V3.00 and GARMIN binary format

Environmental

Temperature:	
Operating:	-30° to 80°C
Storage:	-40° to 90°C

Physical

Size:	0.940" x 1.690" x 0.309" (23.88 x 42.93 x 7.84 mm)
Weight:	0.35 oz. (10 g)
Connectors:	6 pin LIF for connection by flex, 1 mm pitch
Part number:	010-00240-10

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For more information, please refer to our tech which are available on our Web site:
<http://www.garmin.com/products/gps15/>

Specifications are preliminary and subject to change without notice.

* Warm = all data known.
Cold = position, time and almanac known.
AutoLocate™ = almanac known, position at time unknown.
SkySearch = no data known.