

The GPS 18 USB, GPS 18 PC ,
GPS 18 LVC and GPS 18-5Hz sensors
are designed for a variety of OEM
system applications, including car
navigation, wireless communications,

Powerful 12-channel GPS engine with WAAS

marine navigation, mapping and more.

Because they're WAAS capable, these
sensors can provide position accuracy of
less than 3 meters without the use of an
external DGPS beacon receiver. They also
offer excellent EMI/RFI performance for
easy integration into systems that will be
operated near mobile computing devices
and wireless communications equipment.



GPS 18 series specifications

Electrical

Input voltage:

18 USB:	4.4 - 5.5 V
18 PC:	5 V +/- 10%
18 LVC/5Hz:	4.0 - 5.5 V

Input current:

18 USB:	53 mA @ 5 V
18 PC:	57 mA @ 5 V
18 LVC:	60 mA @ 5 V
18-5Hz:	65 mA @ 5 V

Sensitivity: -165 dBW minimum

GPS performance

Receiver: WAAS enabled; 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

DGPS (WAAS) accuracy:

Position:	< 3 meters, 95% typical
Velocity:	0.1 knot RMS steady state

Dynamics: 999 knots, 6g's

Map datums: 108 predefined, 1 user

Interfaces

Serial interface:

18 USB:	2.0 Full Speed
18 PC/LVC/5Hz:	Asynchronous serial input compatible with RS-232 or TTL voltage levels, RS-232 polarity

Baud rates: 300/600/1200/2400/4800/9600/19200/38400

Serial format:

18 USB:	Garmin USB format
18 PC/LVC/5Hz:	Selectable between NMEA 0183 v2.00, NMEA 0183 v3.00, and GARMIN binary formats; Approved output sentences: GPALM, GPGGA, GPGLL, GPGSA, GPGSV, GPRMC, GPVTG; Proprietary sentences: PGRMB, PGRME, PGRMF, PGRMM, PGRMT, PGRMV

Measurement

Pulse Output:

18 USB:	1 Hz pulse, programmable width, 1 microsecond accuracy
18-5Hz:	5 Hz pulse, programmable width, 1 microsecond accuracy

Environmental

Temperature:

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

Physical

Size: 61.0 mm diameter x 19.5 mm height

Weight:

18 USB:	100.4g
18 PC:	184.6g
18 LVC/5Hz:	161.6g

Connectors:

18 USB:	type A connector
18 PC:	DB-9 connector

Part number:

18 USB:	010-00321-01
18 PC:	010-00321-04
18 LVC:	010-00321-06
18-5Hz:	010-00321-07

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

Specifications are preliminary and subject to change without notice.

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

** Subject to accuracy degradation to 100m 2DRMS under the U.S. Department of Defense imposed Selective Availability Program.

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