

WITH WAAS
for even greater accuracy

The GARMIN GPS 17N, designed primarily for use in marine applications, delivers exceptional accuracy while standing up to the harshest environment. This pole-mount GPS sensor has an integrated

Rugged GPS receiver and antenna module with WAAS

antenna housed in a rugged, waterproof design. The 12-channel receiver allows for continuous tracking of all visible satellites.

And it's WAAS capable, which means it can provide position accuracy of less than

3 meters on average. This incredible accuracy is possible without the use of an external DGPS beacon receiver.

The GPS 17N also offers excellent EMI/RFI

performance for easy integration into

systems that will be operated near mobile computing devices and wireless communications equipment.



specifications



Electrical

Input voltage: Unregulated 6–40v
Input current: 65 mA @ 12v DC
28 mA @ 40v DC
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™: Approximately 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 (USCG) accuracy:

Position: 3–5 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

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

Serial interface:

Port 1: Selectable between NMEA and GARMIN. NMEA 0183 v2.0 (ASCII), GPALM, GPGGA, GPGSA, GPGSV, GPRMC, GPVTG, GPGLL, PGRME, PGRMF, PGRMT and PGRMV output

Port 2: RTCM only. RTCM SC-104 differential input message types 1, 2, 3, 7 and 9

Power control:

OFF — open
ON — pull down to less than 0.5 volts

Environmental

Temperature:

Operating: –30° to 80°C
Storage: –40° to 80°C

Physical

Size: 3.58" diameter (9mm)
4.25" height (108mm)

Weight: 1 lb. (0.37 kg)

Cable: Foil-shielded 8 conductor 28 AWG

©2001 GARMIN Corporation



GARMIN International
1200 East 151st Street
Olathe, Kansas 66062, U.S.A.
913/397.8200 fax 913/397.8282

GARMIN (Europe) Ltd.
Unit 5, The Quadrangle
Abbey Park Industrial Estate
Romsey, SO51 9AQ, U.K.
44/1794.519944 fax 44/1794.519222

GARMIN (Asia) Corporation
No. 68, Jangshu 2nd Rd.
Shijr, Taipei County, Taiwan
886/2.2642.9199 fax 886/2.2642.9099

www.garmin.com

For more information, please refer to our tech specs, which are available on our Web site:
<http://www.garmin.com/products/gps17n/manual.html>

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.