

**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](http://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.