



# HGUIDE N580 INERTIAL/GNSS NAVIGATOR

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Honeywell

# HGUIDE N580 INERTIAL/GNSS NAVIGATOR

The HGuide n580 is a small, lightweight, self-contained, all-attitude Inertial/GNSS Navigator for applications where accurate, continuous position and attitude navigation data is required even during regular prolonged GNSS outages.



*Proven - Dependable - Accurate*

The HGuide n580 contains Honeywell's leading-edge HG4930 IMU and provides a powerful dual-antenna, multi-frequency, multi-constellation RTK capability. Honeywell's integration expertise blends the IMU and GNSS data to provide accurate, robust navigation service to your application with all the functionalities that you need.

The HGuide n580 output data includes time-stamped position, velocity, angular rate, linear acceleration, roll, pitch, and heading information. In dual-antenna mode, the device supports GNSS-based heading measurements and initialization.

## KEY HONEYWELL ADVANTAGES

- Honeywell proven navigation algorithms for Air, Land, and Sea.
- World-class inertial sensor development, calibration, and compensation.
- Proven reliability, dependability, and ruggedness.
- Accepts RTCM3 GNSS corrections.
- Highest performing Inertial/GNSS navigator of its size, weight, and price.
- Configuration flexibility. Only purchase the features you need.
- Multiple configurable communication ports.
- Accurate attitude performance that provides better quality navigation trajectories.
- The HGuide n580 is not ITAR controlled. Its Export Control Classification Number (ECCN) is 7A994.

## HGUIDE n580 TYPICAL KEY CHARACTERISTICS

GNSS Capability	SBAS, PPK, and RTK mode options, Single or Dual Antenna Capable
GNSS Signals	GPS L1, L2, L5; GLONASS L1, L2, L3; BeiDou B1, B2; Galileo E1, AltBOC, E5a, E5b; NavIC (IRNSS) L5; SBAS L1, L5 QZSS L1, L2, L5
Time to First Fix / Signal Reacquisition	Cold Start, < 45 Seconds; Hot Start, < 20 Seconds / < 1 Second Due To Momentary Outages
Shock / Vibration	40 G for 11 msec (MIL-STD-810G) / Random 7.7 g's RMS, 20-2000 Hz
Supply Voltage / Power Consumption	+9VDC to +36VDC / 7 Watts
Weight / Volume	495g (1.1 lbs) / 324 cm <sup>3</sup> (19.8 in <sup>3</sup> ), 4.9 cm x 6cm x 6cm
Temperature	-40° C to +71° C (0.8° C/min Max) Operating -54° C to +85° C (3° C/min Max) Non-Op
Regulatory	FCC, ISED, CE, RoHS, WEEE
Submersion (Non-Operating)	2 Meters for 24 Hours (IEC 60529 IP68)
Communication Ports	RS-422 (2x), 5V CMOS, RS-232
Discrete Signals	System & GPS Time Marks, User Event In (2), 1 PPS Event In Marker, Supports Lidar



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**For More Information**

[aerospace.honeywell.com/HGuide](https://aerospace.honeywell.com/HGuide)

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