

# HGUIDE N380 INERTIAL/GNSS NAVIGATOR

Honeywell

# HGUIDE N380 INERTIAL/GNSS NAVIGATOR



*Proven - Dependable - Accurate*

The HGuide n380 is an incredibly small, lightweight, self-contained, all-attitude Inertial/GNSS Navigator designed for applications where robust, continuous position and attitude navigation data is required.

The HGuide n380 contains Honeywell's leading edge i300 inertial measurement unit (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 an accurate, robust navigation service to your application with all the functionalities that you need.

The HGuide n380 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.
- The HGuide n380 is not ITAR controlled. Its Export Control Classification Number (ECCN) is 7A994.

## HGUIDE n380 TYPICAL KEY CHARACTERISTICS

<b>GNSS Capability</b>	SBAS, PPK, RTK mode options, Single or Dual Antenna Capable
<b>GNSS Signals</b>	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;
<b>Time to first fix/Signal reacquisition</b>	Cold Start, < 45 Sec; Hot Start, < 20 Sec / < 1 Second Due to Momentary Outages
<b>Shock/Vibration</b>	40 g for 11 msec (MIL-STD-810G) / Random 2.2g's RMS 20-2000 Hz
<b>Supply voltage/Power consumption</b>	+9VDC to +36VDC / 3.5 Watts
<b>Weight/Volume</b>	320 g (0.77 lbs) / 260 cm <sup>3</sup> (15.9 in <sup>3</sup> ), ~9cm x 6cm x 4.8cm
<b>Temperature (op/non-op)</b>	-40°C to +71°C (0.8°C/min Max) / -54°C to 85°C (3°C/min Max)
<b>Regulatory</b>	FCC, ISED, CE, RoHS, WEEE
<b>Submersion (non-op)</b>	2 Meters for 24 Hours (IEC 60529 IP68)
<b>Communication Ports</b>	RS-422 (2x), 5V CMOS, RS-232, USB, Ethernet (10/100)
<b>Discrete Signals</b>	System & GPS Time Marks, User Event In (2), 1 PPS Event in Marker, Supports Lidar
<b>Internal Data Storage</b>	16 GB, USB 2.0 Access
<b>LED Status Indicators</b>	Power, GNSS, Navigation, Data Logging



**For more information**

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

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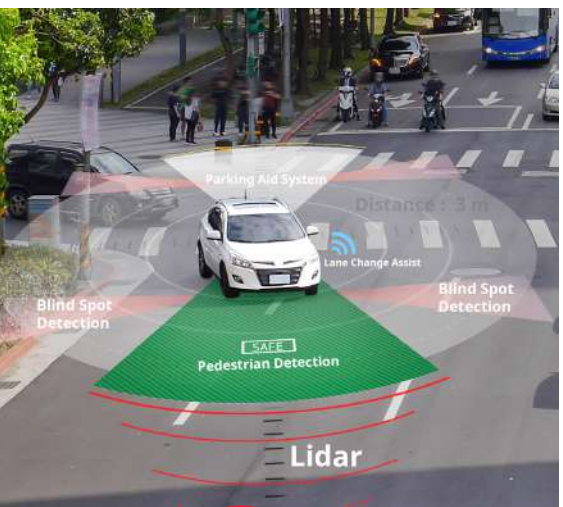
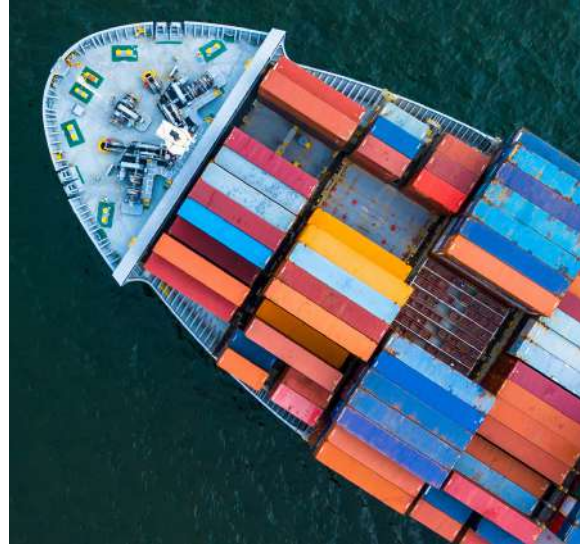
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# HGUIDE N580 INERTIAL/GNSS NAVIGATOR

# HGUIDE N580 INERTIAL/GNSS NAVIGATOR

The HGuide n580 is a small, lightweight, self-contained, all-attitude Inertial/GNSS Navigator which can be used for a wide variety of platforms, applications and industries where continuous navigation information is a critical component.



*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 an 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
- The HGuide n580 is not ITAR controlled. Its Export Control Classification Number (ECCN) is 7A994.

## HGUIDE n580 TYPICAL KEY CHARACTERISTICS

GNSS Capability (Varies by Configuration)	SBAS, Post-Processed Kinematic (PPK), and RTK mode options Single or Dual Antenna capable
GNSS Signals (Varies by Configuration)	GPS L1 C/A, L1C, L2C, L2P, L5; GLONASS L1 C/A, L2 C/A, L2P, L3, L5; BeiDou B1, B2; Galileo E1, E5 AltBOC, E5a, E5b; NavIC (IRNSS) L5; SBAS L1, L5 QZSS L1 C/A, L1C, L2C, L5; L-Band up to 5 channels
Supply Voltage/Power Consumption	+9VDC to +36VDC / 7 Watts (Varies by Configuration)
Weight/Volume	495g (1.1 lbs) / 324 cm <sup>3</sup> (19.8 in <sup>3</sup> ), ~9 cm x 6cm x 6cm
Operating Temperature Range	-40°C to +71°C
Compliance	IP68, FCC, ISED, CE, RoHS, WEEE
Communication Ports	Navigation Interface, RS-422 and 5 VDC CMOS (Configurable) RCM3 Correction - RS422 and RS232 (Configurable)
Discrete Signals	PPS 5V CMOS Output (Supports Lidar Integration)



**For More Information**

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

**Honeywell Aerospace**

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