Navtech Systems GPS Devices

GNSS Compass Family
(With integrated antennas)

The Navtech **NTS-HX series** of low cost, low profile, fully waterproof GNSS Compass modules provides TRUE heading from the GNSSS satellites. By simultaneous and coincident constellation tracking, two receivers with common processing derive the local GNSS position, differential GNSS corrections and heading with respect to True (geographic) North.

By using high precision differential carrier phase measurements from the internal antennas, heading accuracies to better than 0.5 degrees are achieved.

For dynamic applications pitch, roll and turn rate sensing (gyro) aiding is included, configured by user commands. ***This provides high accuracy pitch, roll & yaw (heading) measurements for a fully comprehensive attitude sensor.***

A robust and comprehensive user interface with an isolated dc/dc power converter, RF signal path processing and dual port **RS232** and/or **RS485** with an option of **Ethernet IP** interfacing provides a versatile heading sensor for a variety of applications that is not affected by magnetic deviation influences or variation offsets. For vulnerable location installations the **low profile (35mm)** provides for minimal protrusion.

Integrated GNSS antennas provide for a complete stand-alone True North compass solution with only power and data interface connections required.

Specifications:

Power:	**9 to 36 volts dc (4 watts) or POE with Ethernet version.**
Interface:	**Port A RS232 configurable baud rate (default 19,200)** **Port C RS232 or RS422/485 configurable baud rate (default 19,200)** **Ethernet IP streaming** ***All ports output NMEA Messages $GPGGA, VTG, ZDA, RMC, GSV & HDT, $HEROT, $PASHR, $PSATHPR (heading, pitch & roll) etc. [or Binary data] – all configurable to user requirement.***
Dimensions:	**39 x 12 x 3.2 cm, Weight: 1.2Kg**
Environmental:	**NTS-HX102-(IP66) = IP66 with Mil style connector underside**.
Connections:	**Power & data: Mil 7 pin or waterproof RJ45 (with POE).**
Variants:	**NTS-HS = dual RS232 ports; NTS-HR = RS232 + RS422/485; NTS-HE = Ethernet**