# ComNav





Well.

# Accurate Heading, Position and Rate of Turn

- New: Supports both GPS and GLONASS satellites for complete redundancy
- New: Heading accuracy < 0.5° rms

ComNav

- New: Position accuracy < 1.0m 95% confidence (DGPS)
- New: An integrated 9 Axis Inertial Measurement Core (IMC technology) provides enhanced roll, tilt and heading stability even during momentary loss of satellite signals
- New: G3 color display system (optional)
- New: Engineered enhancements to exceed sealed IP67 rating
- New: Extended 2 year warranty
- NMEA 0183 and NMEA 2000® interface
- Heave, Pitch, Roll and Rate of Turn as standard output
- Heading updates 1 to 20 Hz
- BAUD Rate selectable: 4800, 9600, 19200, 38400,115200
- Fully compatible with on board NMEA 0183 and NMEA 2000<sup>®</sup> RADAR, ECDIS, AIS, Cameras, SONAR, PC and Autopilots
- Compact integrated surface mounting and pole mount
- Pre-programmed default settings for Heading, Rate of Turn, Course over Ground, Lat/Long position, Time & Date
- 15 meter serial cable standard (30 meter optional)
- 6 meter NMEA 2000<sup>®</sup> Cable (Optional)
- CE certified for EMI and RFI immunity
- Worldwide service

# SYSTEM CONFIGURATION & OPTIONS

G1

## SPECIFICATIONS:

Receiver Type: Channels: Update Rate:

Horizontal Accuracy:

Heading Accuracy: Pitch / Roll Accuracy: Heave Accuracy: Rate of Turn: Start-up Time: Heading Fix: Satellite Reacquisition:

#### **COMMUNICATIONS**

Serial Ports: Baud Rates: Correction I/O Protocol: Data I/O Protocol: NMEA Heading Messages:

**ENVIRONMENTAL** 

Operating Temperature: Storage Temperature: Humidity: EMC:

#### **POWER**

Input Voltage:10Power Consumption:~ 2Current Consumption:~ 2Power Isolation:PowReverse Polarity Protection:YesPower/Data Connection:18-

**AIDING DEVICES** 

Gyro:

**Tilt Sensor:** 

Provides reliable < 1° Heading for up to 3 minutes when loss of GPS has occurred Assists in fast start-up of heading solution

18-pin female circular, IP67 sealed 15m cable

Power supply isolated from serial ports

- Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services), and Ionospheric activity.
- \*\* Depends on multipath environment, number of satellites in view, and satellite geometry

10 to 36 VDC

 $\sim 2.8$  W nominal

~ 240 mA @ 12 VDC

#### Two x 32 parallel tracking GPS, GLONASS, SBAS Standard 10 Hz, Selectable up to 20 Hz (position and heading) < 0.5m 95% confidence (DGPS)\* < 2.5m 95% confidence (autonomous, no SA)\*\* < 0.50° rms < 1° rms < 30 cm rms 90° / sec max < 60 sec typical < 10 sec < 1 sec

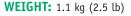
L1, C/A code, with carrier phase smoothing

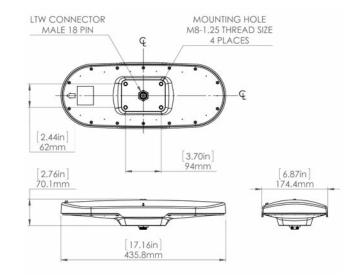
1 full duplex R2-232 and 1 full duplex RS-422 4800 - 115200 RTCM SC-104 NMEA 0183, NMEA 2000®, CAN \$GPHDT, \$HEHDT, \$HEHDM, \$GPROT, \$GHEROT, \$GPGGA, \$GPGSV, \$GPVTG, \$GPRMC, \$GPZDA, \$PASHR

-30°C to +70°C (-22°F to + 158°F) -40°C to +85°C (-40°F to + 185°F) 95% non-condensing FCC Part 1.5, Subpart B, Class B, CISPR22, CE



## DIMENSIONS: 435.8mm x 70.1mm x 174.4mm / 17.16" x 2.76" x 6.87" LxHxW





#### **ADDITIONAL OPTIONS:**

- 30m NMEA 0183 Serial Data Cable
- 6m NMEA 2000® Cable
- Color LCD Sunlight G3 Instrument Display

Represented by:





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Specifications subject to change without notice