

WORLD DGPS

C-Nav3050



C-Nav3050 FEATURES:

- 66-channel combined GPS/GNSS/L-band receiver provides sub-meter, precise point positioning accuracy worldwide between 72N and 72S
- Multi-constellation support and tracks GPS, GLONASS, Galileo, StarFire, other SBAS (WAAS/EGNOS) signals, and accepts external RTCM input.
- Small and lightweight for fast and hassle-free setup
- Easily configured utilizing "C-Setup", a free PC based software
- Easily configured utilizing C-Nav proprietary PC-based controller software
- Easily monitored with intuitive front-panel LEDs or a C-NaviGator II Control/Display Unit.



FEATURES

- "All-in-view" parallel tracking with 66 channels
- SBAS (WAAS/EGNOS/MSAS/GAGAN) Tracking
- Built-in StarFire L-band receiver
- L1, L2, L5, G1 & G2 full wavelength carrier phase tracking
- C/A, P1, P2, L2C, L5, G1 and G2 code tracking
- Software upgradeable for Galileo signal reception (E1, E5a)
- High sensitivity / Low signal level tracking
- Fast signal acquisition / re-acquisition
- Superior interference suppression (both in and out of band)
- Patented multipath rejection
- RTK Extend and StarFire Over-The-Air activation capabilities
- Configurable as RTK base or rover
- Programmable output rates
- Event Marker input / 1PPS output
- 2GB Internal data storage

PHYSICAL/ENVIRONMENTAL

- Size (L x W x H): 6.47" x 4.60" x 2.37" (164 x 117 x 60mm)
- Weight: 1.1 lbs (0.5 kg)
- Front Status Indication: Power/GPS Status, Correction Service Status, Interface Status, and Bluetooth Status
- External Power Input: AC/DC Adapter 110/220VAC
12VDC Nominal 0.5A
(9.0V to 32VDC)
- Connectors
 - I/O Ports: 2 x 9 pin Positronic
 - DC Power: 1 x 9 pin Positronic
 - RF Connector: TNC (with 5VDC bias for antenna/LNA)
- Temperature (ambient)
 - Operating: -40° C to +70° C (-40° F to 158° F)
 - Storage: -40° C to +85° C (-40° F to 185° F)
- Humidity: 95% non-condensing
- Tested in accordance with MIL-STD-810F for: Low pressure, solar radiation, rain, humidity, salt fog, sand dust, and vibration

COMPLIANCE/APPROVALS

- Compliance with the following standards:
 - > IMO performance standard for GPS* > IEC 60529
 - > FCC Part 15 Class B, CE
- Type Approvals:
 - > Wheelmark
 - > USCG

PERFORMANCE

GPS RECEIVER PERFORMANCE

- Accuracy (RMS):

RTK (<40km):	Horizontal / Vertical
StarFire:	1cm + 0.5ppm / 2cm + 1ppm
Code DGPS (<200km):	<10cm / <15cm
Velocity:	45cm + 3ppm / 90cm + 3ppm
RTK Extend (<15 mins):	0.01ms
	3cm + 1ppm / 6cm + 2ppm
- User Programmable Output Rates

Position/Velocity/Time:	1, 5, 10, 25, 50, & 100 Hz
Raw Data:	1, 5, 10, 25, 50, & 100 Hz
- Data Latency

Position/Velocity/Time:	10ms at all rates
Raw Data:	10ms at all rates
- Time-to-First-Fix

Cold/Warm/Hot:	<60s / <50s / <20s
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(typical values measured per ION-STD 101)
- Dynamics

Acceleration*:	up to 6g
Speed*:	<515m/s (1000 knots)
Altitude*:	<60,000ft (18.3km)

*Restrictions due to export control laws

I/O CONNECTOR ASSIGNMENTS

- Data Interfaces: 2 x RS232 (1 - changeable to RS422, 4800-115200 baud rates)
- 1 x USB 2.0 (Host or Device)
- Bluetooth
- Ethernet (10T/100T)

INPUT/OUTPUT DATA MESSAGES

- NMEA-0183: ALM, GBS, GGA, GLL, GRS, GSA, GST, GSV, RMC, RRE, VTG, ZDA, NCT
- Differential Correction: RTCM 2.3 and 3.0, SBAS and StarFire (proprietary)
- RTK Correction: CMR/CMR+, RTCM, NavCom Ultra RTK
- Receiver Control: NavCom Proprietary Commands (ASCII)

C-NaviGator. CONTROL DISPLAY UNIT OPTION

- Dimensions (W x H x D): 13.4" x 10.3" x 3.3" (34.0 x 26.2 x 8.4cm)



C-NaviGator. Control Display Unit

*IMO require all SOLAS class ships to carry a type-approved GPS and further that any new GPS installation shall be compliant with the new performance standard for GPS. This was defined by MSC 112(73) and resulted in the associated test standard IEC 61108-1 Ed. 2.

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