GNSS RECEIVER

FEATURES

- Multi-Frequency L1/L2/L5 RTK GNSS receiver
- Multi-constellation GNSS support
- Centimeter level position accuracy in RTK mode
- High Accuracy 1 PPS output
- Multiple interfaces: RS232 and Ethernet
- Rugged IP65 enclosure
- Power, Communication & Health LED Indicators



APPLICATIONS

- Autonomous Ground Vehicle (AGV)
- Unmanned Ground Vehicle (UGV)
- Surveying and Mapping
- Precision Agriculture
- Land and Marine Applications
- Robotics
- Precise Time Synchronisation

DESCRIPTION

The DENEB, DNB-GN402 is a robust high-performance multi-frequency, multi-constellation GNSS receiver that delivers precise position in standalone and centimeter level position accuracy in Real Time Kinematic (RTK) mode. The rugged design of DNB-GN402 meets the operational requirements of applications such as robotics and autonomous vehicles. It is also suitable for surveying and handheld applications where weight and size matter.

The DENEB, DNB-GN402 is a multi-frequency L1/L2/L5 GNSS receiver with GPS, GLONASS, Galileo, Beidou, IRNSS/NavIC and SBAS support. It provides UTC synchronized 1PPS CMOS output. The multi-constellation high gain GNSS antenna assures an uninterrupted satellite signal making the DNB-GN402 a right choice for high precision positioning and surveying applications.

TECHNICAL SPECIFICATIONS

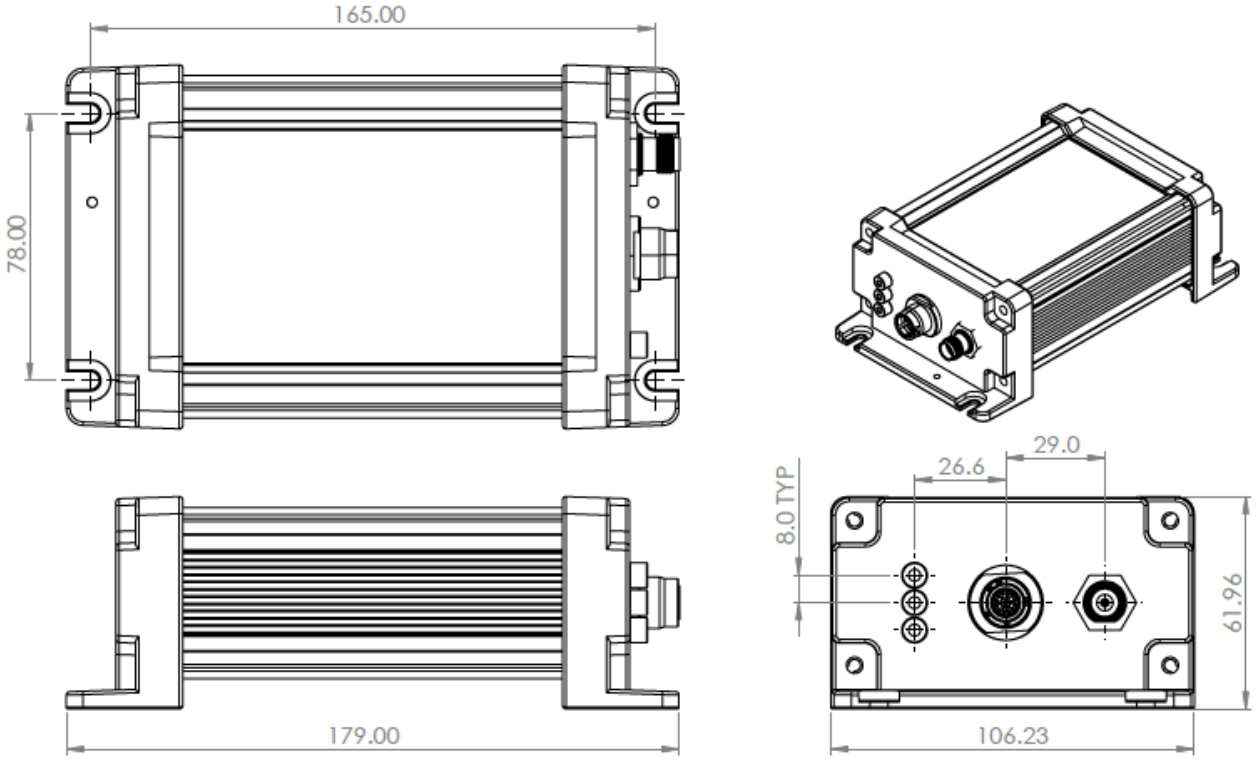
Parameter Name	Parameter Value DENEB GN402
Position & Velocity Accuracy	
Horizontal Position[1]	1cm CEP with RTK 1.5m CEP in Standalone mode
Vertical Position[1]	1cm CEP with RTK 2m CEP in Standalone mode
Dynamic Heading Accuracy[3] (deg)	0.3
Velocity Accuracy[3] (m/s)	0.1
GPS / GNSS	
Type	L1/ L2/ L5*/ Carrier phase GPS, GLONASS, Galileo, Beidou, IRNSS/NavIC* and SBAS
Update Rate (Hz)	10
TTFF[1,2] Cold Start (seconds)	45
Reacquisition Time (seconds)	2
Protocols	NMEA 0183 and RTCM v3
Electrical	
Input Voltage (V DC)	12 to 32
Power Consumption (W)	<3
Interface Options	RS232 x 2[4], Ethernet x 1 and PPS x 1
LED Indicators	Power, Communication and Health
Antenna	
Type	Multi-Constellation GNSS Antenna
Connector	TNC Socket
Physical	
Size (mm)	179 (L) x 106.23 (W) x 61.96 (H)
Weight (kg)	<1.5
Environmental Compliant	
Operating Temperature (°C)	-40 to +71
Storage Temperature (°C)	-55 to +85
Ingrees Protection	IP65
EMI/EMC	MIL-STD-461E/F
Vibration	MIL-STD-810G

1 - Open sky conditions
2 - Time to First Fix
3 - 50% at 30m/s for dynamic operation
4 - COM1 is RS232 configuration or data port and COM2 is for RTK port
* - Factory upgradable

MADE IN INDIA

MECHANICAL DIMENSIONS

All the dimensions in mm



ORDERING INFORMATION

DNB - GN402 (Product Code: 28013)

MADE IN INDIA