

PARTH 1000 IT

GNSS RECEIVER

KEY FEATURES

- » IRNSS enable
- » 965 channels
- » GPS L1/L2/L5, BeiDou B1/B2/B3,
- » BeiDou Global B1C/B2a,
- » GLONASS L1/L2, Galileo E1/E5a/E5b and SBAS
- » Advanced QUANTUM™ Technology WIFI/UHF/4G Module
- » Tilt Compensation
- » Smart Battery Design(Hot Swap Battery)
- » Low Power Consumption

INTEGRATED GNSS RECEIVER

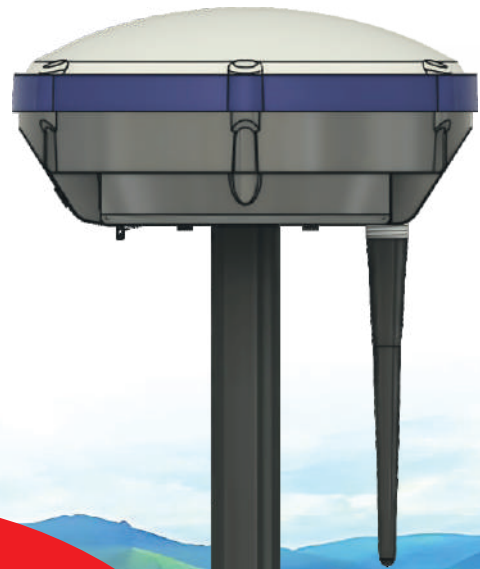
The receiver combines a GNSS board, Bluetooth® and adjustable TX & RX UHF into one compact device, one of the most reliable choices for surveying tasks. Built-in GPRS/ GSM/4G modem help for work with all kinds of CORS.

RUGGED AND USER FRIENDLY

The rugged housing with IP67 Dustproof & Waterproof design makes the PARTH100 IT perfect and effectively works even in harsh environments. Small volume with less than 1kg weight makes the PARTH100 IT one of the most portable GNSS receivers meeting your RTK survey demands. Built-in 8GB internal memory enlarges your data storage in the field.

SMART BATTERY DESIGN

With two hot swap batteries, the PARTH100 IT helps to extend working hours and ensure your fluent workflow in the field. The battery LEDs flash when battery shortage.



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GNSS RECEIVER



SIGNAL TRACKING

965 GNSS Channel

IRNSS L5

GPS L1, L2, L2C, L5

BeiDou B1, B2, B3 B1C, B2a

GLONASS L1, L2

Galileo E1, E5a, E5b

QZSS Reserved

SBAS WAAS, EGNOS, MSAS, GAGAN

PERFORMANCE SPECIFICATIONS

Cold Start >50s

Warm Start >30s

Hot Start >15s

Initialization Time >10s

Signal Re-acquisition >1.5s

Initialization Reliability >99.9%

POSITIONING SPECIFICATIONS

Static and 3 mm + 0.5 ppm Horizontal

Fast Static 5 mm + 0.5 ppm Vertical

Long Observations 2.5 mm + 0.1 ppm Horizontal

Static 3.5 mm + 0.4 ppm Vertical

Real Time Kinematic 8 mm + 1 ppm Horizontal

15 mm + 1 ppm Vertical

DGPS <0.4 m Horizontal, <0.8m Vertical

SBAS <0.6m Horizontal, <1m Vertical

PHYSICAL

Size(L × W × H) 172 x 167 x 77mm

Weight 1.2 kg with two batteries

SOFTWARE

PARTH Survey Android-based data collection software

Windows based PPK software

Add: 105, Phase-IV, Udyog Vihar, Gurgaon-122 015

Phone: 0124-4013954, 4300950 | **Fax:** 0124-2346646

Web: www.panindiagroup.com

DATA FORMAT

Correction Data I/O RTCM 2.x, 3.x formats, CMR,CMR+

Position Data Output ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG, GST; PTNL, PJK; PTNL, AVR; PTNL, GGK

ENVIRONMENTAL

Operating Temperature 40 °C to + 65 °C

Storage Temperature -40 °C to + 85 °C

Humidity 100% non-condensing

Waterproof and Dustproof IP67,1m temporary immersion .

Shock 2 m pole drop Survive

ELECTRICAL AND MEMORY

Input voltage 7-28 VDC

Power consumption 1.92 W

Li-ion battery capacity 2 × 2.2Ah

Memory 8GB(Expandable Up to 32GB)

Battery life time 10hrs(GNSS,UHFor GSM RX)

OPERATION

RTK UHF rover & base

RTK UHF rover & base

NTRIP, Direct IP/CORS

Post-processing

USER AND IO INTERFACE

1 x 7 pin Lemo port (Serial and USB both function available)

Baud rates up to 921600bps for serial

UHF modem1: Tx/Rx with a full frequency range from 410-470 MHz.

Transmit power: adjustable Range: 1-5 km. depends on power and line of side.

WIFI/4G modem

4G Bands: 800/900/1800/2100/2600 MHz

3G Bands: 900/2100 MHz

2G Bands: 900/1800 MHz

Support GSM, Point to Point/Points and NTRIP

Position data output rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz

5 LEDs (indicating both Battery, Power, Satellite Tracking, GPRS Status and RTK)

Bluetooth®: V 4.0 protocol, Windows OS and Android OS compatible

TILT COMPENSATION

Built-in tilt sensor supports up to 60° tilt compensation with 2.5cm accuracy.