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 al kinds of CORS.

RUGGED AND USER FRIENDLY

The PARTH1000iTPro features a rugged IP67 dustproof and waterproof design, ensuring reliable performance in harsh environments. Weighing under 1kg, it's one of the most portable GNSS receivers for RTK surveys. Its built-in 8GB memory offers ample field data storage.

SMARTBATTERY DESIGN

With two hot swap batteries, the PARTH1000iTPro helps to extend working hours and ensure your fluent workflow in the field. The battery LEDs flash when battery shortage.

PAN INDIA CONSULTANTS PVT. LTD.

PAN INDIA GROUP

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PARTH1000IT *Pro*

FULL-FEATURED GNSS RECEIVER

- IRNSS | GNSS
- WIFI/UHF/4G
- HOT-SWAP BATTERY
- LOW POWER
- UP TO 40° TILT IMU
- 672 CHANNELS

ADVANCED
GNSS TECHNOLOGY
FOR PRECISION
SURVEYING

SIGNAL TRACKING

672 GNSS Channel	
IRNSS L5	
GPS L1, L2, L2C, L5	
BeiDou B1, B2, B3 B1C, B2a	
GLONASS L1, L2	
Galileo E1, E5a, E5b	
QZSS	
SBAS WAAS, EGNOS, MSAS, GAGAN	

PERFORMANCE SPECIFICATIONS

Cold Start	< 45s
Warm Start	< 30s
Hot Start	< 15s
Initialization Time	< 10s
Signal Re-acquisition	< 1.5s
Initialization Reliability	< 99.9%

POSITIONING SPECIFICATIONS

Static	3mm + 0.5 ppm Horizontal
Fast Static	5mm + 0.5 ppm Vertical
Long Observations	3mm + 0.1 ppm Horizontal
Static	3.5mm + 0.4 ppm Vertical
Real Time Kinematic	8mm + 1 ppm Horizontal
	15mm + 1 ppm Vertical
DGPS	<0.25 m Horizontal, <0.50 m Vertical
SBAS	<0.50 m Horizontal, <0.80 m Vertical

PHYSICAL

Size(L × W × H) 172 x 167 x 77mm	
Weight 1 kg with two batteries	

SOFTWARE

PARTH Survey Android-based data collection software	
Windows based PPK software	

DATA FORMAT

Correction Data 1/O	RTCM 2.x, 3.x formats, CMR,CMR+
Position Data Output	ASCII: NMEA-0183 GSV, AVR, RMC, HDT, VGK, VHD,ROT, GGA, GSA, ZDA, VTG, GST; PJT, PJK; GGK,GLL, GRS, GBS

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	2m pole drop survive

ELECTRICAL AND MEMORY

Input voltage Power	7–30 VDC
Consumption Li-ion	1.92 W
Battery capacity	2 × 2.2 Ah
Memory	8 GB (Expandable)
Battery Backup	10 hrs (GNSS, UHF or GSM RX)

OPERATION

RTK UHF rover & base	
RTK Network rover & base	
CORS (NTRIP)	
Post-processing	

USER AND IO INTERFACE

Ports & Communication:

- 1 × 7-pin Lemo port (Serial + USB)

Modem

- Tx/Rx, 410–470 Mhz
- Power adjustable, Range 1–5 km (line of sight)
- Wireless Connectivity:
- WiFi / 4G / 5G modem
- 4G/5G Bands: 800/900/1800/2100/2600 Mhz
- 3G Bands: 900/2100 Mhz
- 2G Bands: 900/1800 Mhz
- Supports GSM, Point-to-Point, and NTRIP

Data Output Rates:

- UP TO 20Hz

Indicators:

- 5 LEDs (Battery, Power, Satellite, GPRS, RTK)

Bluetooth®:

- Version 4.0, compatible with Windows and Android OS

Tilt Compensation:

- Built-in tilt sensor supports up to 40° tilt compensation with 2 cm accuracy

BOOST
PRODUCTIVITY OF
GNSS BASE + ROVER SURVEY.