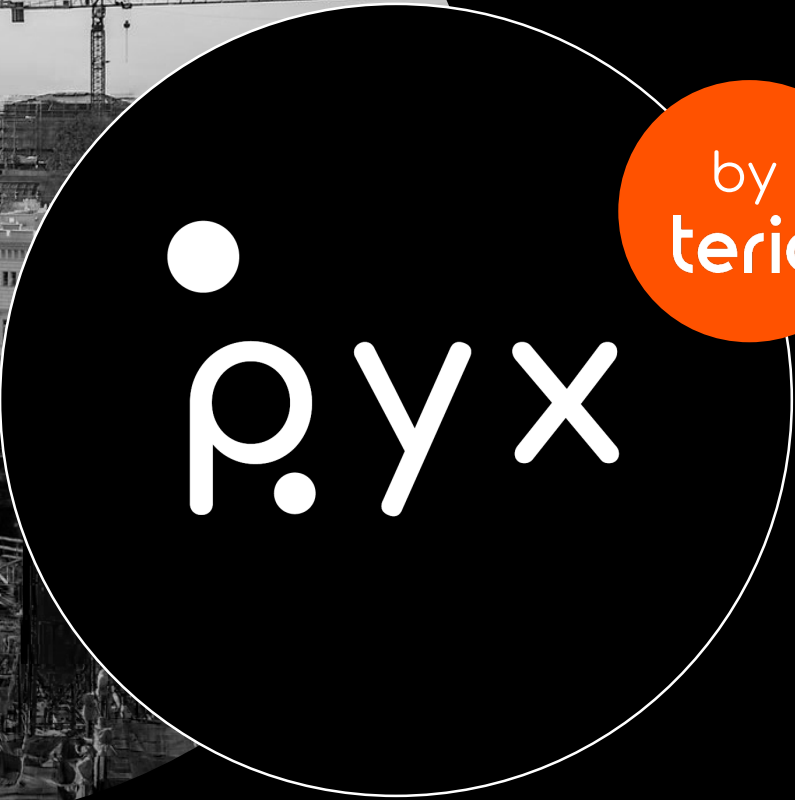




by  
teria



# THE NEW ALL-IN-ONE GNSS SOLUTION



Accurate



Fast



Handy



Made in France



# PYX TECHNICAL SPECIFICATIONS



## PHYSICAL CHARACTERISTICS

<b>Dimensions</b>	18cm x 6,5cm
<b>Weight</b>	325 g
<b>I/O interface</b>	1. Port : USB-C (2 Serial emulation and TCP/IP function) 2. Bluetooth 5.0 3. Output configurable (NMEA, RTCM, etc.) 4. Update Rates up to 100Hz 5. Power supply USB-C
<b>Environmental Characteristics</b>	Temperature : -20°C to +60 °C Humidity : 5% - 95% (non-condensing) IP 68 waterproof, sealed against sand and dust. Drop : 2 m Vibration : MIL-STD-810G
<b>Power Characteristics</b>	Autonomy : > 10h in TERIA and TERIASat mode External DC Power : USB-C - 5V - 2A
<b>Certification</b>	CE, RoHS

## GNSS CHARACTERISTICS

<b>Real-Time Kinematic position (RTK)<sup>1,2,3</sup></b>	Horizontal accuracy 0,6 cm+ 0,5 ppm Vertical accuracy 1,0 cm+ 1 ppm Initialisation time 7s
<b>Real-Time DGNSS position<sup>1,2,3</sup></b>	Horizontal accuracy : 40 cm Vertical accuracy : 70,0 cm
<b>SBAS (WAAS/EGNOS/MSAS/GAGAN)<sup>1,2,3</sup></b>	Horizontal accuracy : 60,0 cm Vertical accuracy : 80,0 cm
<b>Post Processing &amp; Internal Data Logging</b>	Rinex up to 100Hz
<b>GNSS Channels</b>	448 channels GPS : L1C/A, L1C, L1 PY, L2C, L2P, L5 GLONASS : L1C/A, L2CA, L2P, L3 CDMA Beidou : B1, B1C, B2a, B2, B3 Galileo : E1, E5a, E5b, E5 AltBoc, E6 QZSS : L1C/A; L1C, L2C, L5, L6 NAVIC : L5 SBAS : EGNOS, WAAS, GAGAN, MSAS, SDCM (L1, L5) L-Band - TERIASat
<b>TERIASat compatible.</b>	
<b>AIM+ interference monitoring and mitigation (narrow band, wide band, chirp jammers).</b>	
<b>IONO+ advanced scintillation mitigation.</b>	
<b>APME+ a posteriori multipath estimator for code and phase multipath mitigation.</b>	
<b>LOCK+ superior tracking robustness under heavy mechanical shocks or vibrations.</b>	
<b>RAIM+ receiver autonomous integrity monitoring.</b>	
<b>Firmware</b>	Free product lifetime upgrades (USB-C)

## Compatibility

All data collectors and applications under Android and Windows Operating System.

## TERIA REAL-TIME PERFORMANCE

<b>TERIA NETWORK<sup>1,2,3</sup></b>	Horizontal accuracy 1,0 cm Vertical accuracy 2,0 cm Initialisation time 5s
<b>TERIASat SERVICE<sup>1,2,3</sup></b>	Horizontal accuracy 2,5 cm Vertical accuracy 5,0 cm Initialisation time 15s

<sup>1,2</sup> Accuracy and TTFF specifications may be affected by atmospheric conditions, signal multipath, satellite geometry and corrections availability and quality.

<sup>3</sup> Performance values assume in Open sky conditions, following the procedures recommended in the product manual. Accuracy is in RMS.

High multipath areas, high PDOP values and periods of severe atmospheric conditions may degrade performance.

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## PYX Pack includes :

- PYX GNSS Receiver
- TERIA & TERIASat subscription included
- TCP-GPS Software Applications for Android
- Data collectors – Controller
- Multipurpose Handle
- USB-C / USB-A Cable
- Shock resistant case
- Standard 1 year warranty

## Optional System Components

- Foldable carbon pole
- SIM card
- External Battery



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