

GNSS X5Mobile

The high precision external GNSS antenna receiver that works with your Android smartphone or tablet. The perfect solution for entry-level and field-experienced professional users.



Description

The X5Mobile is a high-precision GNSS receiver that operates connected to an Android smartphone or tablet and features an NTRIP correction system that receives data via the Android device's Internet connection via USB or Bluetooth. It has a red dot laser for ease of use in geodetic surveys.

Main Advantages:

- Uses the same GNSS L1/L2/e5 technology found in professional receivers with state-of-the-art components
- Simultaneous reception of all constellations: GPS, GLONASS, GALILEO and BEIDOU
- Multi-band NTRIP corrections with fast convergence times and robust performance, offers centimeter-level accuracy with a Fix solution in seconds
- Allows Geodetic Surveys and Photogrammetry with high-precision geotagging
- Includes its own multi-band helical GNSS antenna
- Data transfer connection via USB port and Bluetooth
- Compatible with GIS and Photogrammetry Applications that operate with NMEA data
- It has a red point Laser for easy location of the points to be georeferenced on the field

- Rugged plastic enclosure
- In short: Centimeter-level precision in a small, very low-power module.

X5Mobile Components:


- GNSS X5Mobile unit
- Multi-band Antenna HeliX5 unit
- USB OTG cable adapter for power up (plug and play)
- Velcro: two units of high resistance 3M synthetic velcro



Image: X5 Mobile Components.

Compatible Android Apps:

- SW Maps
- FieldGenius
- Survey Master
- Mapit GIS / Mapit NTRIP Client
- YCServer NTRIP Client
- RTK camera (Photogrammetry)

X5Mobile Specifications:	
Mechanical	<ul style="list-style-type: none"> ● Dimensions: 85 x 40 x 15 mm (without antenna) ● Weight: 70g ● Operation temperature: -40 to 85 °C
Electrical	<ul style="list-style-type: none"> ● Input voltage: 4.75 - 5.5 V ● Antenna DC bias: 3.3 V ● Peak current consumption: 5V @ 250 mA ● Average current consumption: 5V @ 120 mA ● Current limit on USB OTG: 500 mA
Connectivity	<ul style="list-style-type: none"> ● Bluetooth V4.2 BR/EDR ● USB Serial
GNSS	<ul style="list-style-type: none"> ● Concurrent reception of GPS, GLONASS, Galileo and BeiDou ● Receives both L1C/A and L2C bands ● Signal tracked GPS/QZSS L1 C/A, L2 GLONASS L1OF, L2 BeiDou B1I, B2I Galileo E1-B/C, E5b ● Number of channels 184 ● Navigation update rate: 1 Hz GNSS ● Position accuracy: NTRIP 0.01 m + 1 ppm CEP ● Convergence time: NTRIP < 10 sec ● Time to First Fix: 25s (cold), 2s (hot) ● Max Altitude: 50km (31 miles) ● Max Velocity: 500m/s (1118mph)
Laser	<ul style="list-style-type: none"> ● Red dot laser ● Laser wavelength: 650nm ● Beam mode ● Dimension: 8*13.5mm ● Working life: ≥5000h ● Optical power:1-100mw ● Voltage range:3V-8V ● Operating current: ≤150mA ● Operating temp range: -25~65°C ● Light deflection angle:±2° ● Beam spot size at 10m: <15mm <div style="text-align: center; margin-top: 10px;">  <p>DANGER</p> <p>Laser radiation. Avoid eye or skin exposure to direct or scattered radiation. Class IV laser product.</p> </div>