simpleRTK3B - Basic Starter Kit

Includes:
- 1 simpleRTK3B Pro board (Mosaic-X5)
- 1 Budget Survey Tripleband GNSS Antenna (IP66) including 2.5m cable
- 1 Magnetic Stand for Survey GNSS Antenna

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More info about the product!

simpleRTK3B - Basic Starter Kit SKU is: AS-STARTKIT-BASIC3B-L125-NH-00

Get a discounted bulk price on this product for orders of 50 units or more. Contact us at info@ardusimple.com to get a quote.

Description

This standalone set of triple band board based on Septentrio Mosaic-X5 + ArduSimple Budget Survey Antenna + Magnetic Stand is everything that you need to achieve millimeter level accuracy and evaluate triband (L1/L2/L5) RTK GNSS technology at the most affordable cost.

To achieve millimeter level accuracy, you will need to connect it to a base station or to an RTK correction service (NTRIP or PointPerfect). You can use it with your smartphone, tablet, laptop, PC or embedded platform.

The kit can be configured as a base or a rover, supports multi-rover. It is fully compatible with Arduino, STM32 Nucleo, Raspberry Pi, Nvidia Jetson, ROS and Pixhawk / Ardupilot.

More details are available in the Specifications and Documentation tabs.

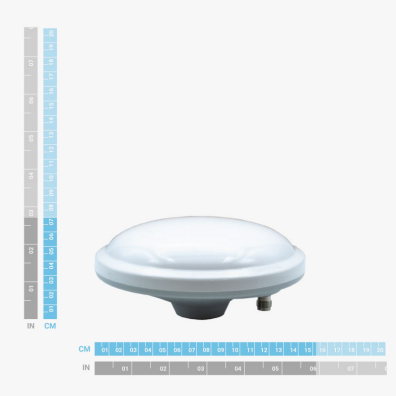
Good to know:
– This product is compatible but doesn’t include radio, which might be useful connect to another base.
– This product is recommended if you want to evaluate Septentrio Mosaic-X5.

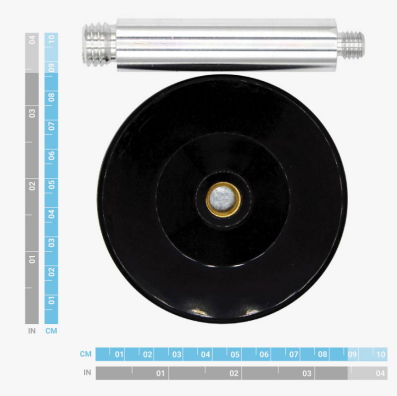
Specifications

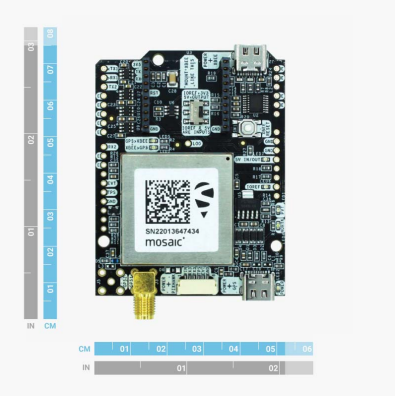
Mosaic-X5 features

- Millimeter level precision
  - <1cm with a base station up to 35km
  - <1cm with NTRIP up to 35km
  - <1.2m in standalone mode
  - <0.6m standalone with SBAS coverage
- Update rate
  - Default: 1Hz
  - With maximum performance: up to 100Hz
- Multi band: L1, L2 and L5 support, 448 hardware channels
- Multifrequency and Multiconstellation:
  - GPS: L1C/A L1PY L2C L2P L5
  - GLONASS: L1CA L2CA L2P L3 CDMA
  - Galileo: E1 E5a E5b E5 AltBloc E6
  - BeiDou: B1I B1C B2a B2I B3
  - QZSS: L1C/A L2C L5
  - Navic: L5
  - SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM (L1 L5)
- Start-up times:
  - Cold start: <45s
  - Warm start: <20s
  - Re-acquisition: 1s
- Protocols:
  - Septentrio Binary Format (SBF)
  - NMEA 0183, v2.3, v3.03, v4.0
  - RINEX v2.x, v3.x
  - RTCM v2.x, v3.x (MSM included)
  - CMR v2.0 (out/in), CMR+ (input only)
- Interfaces **(check user guide to verify which are available)**:
  - USB
  - UART
  - XBee
  - Timepulse
  - Event
- Base and Rover functionality
- Operating temperature Range: -40 to +85deg
- Certification: CE, WEEE, ISO 9001-2015
- Documentation: RED, RoHS

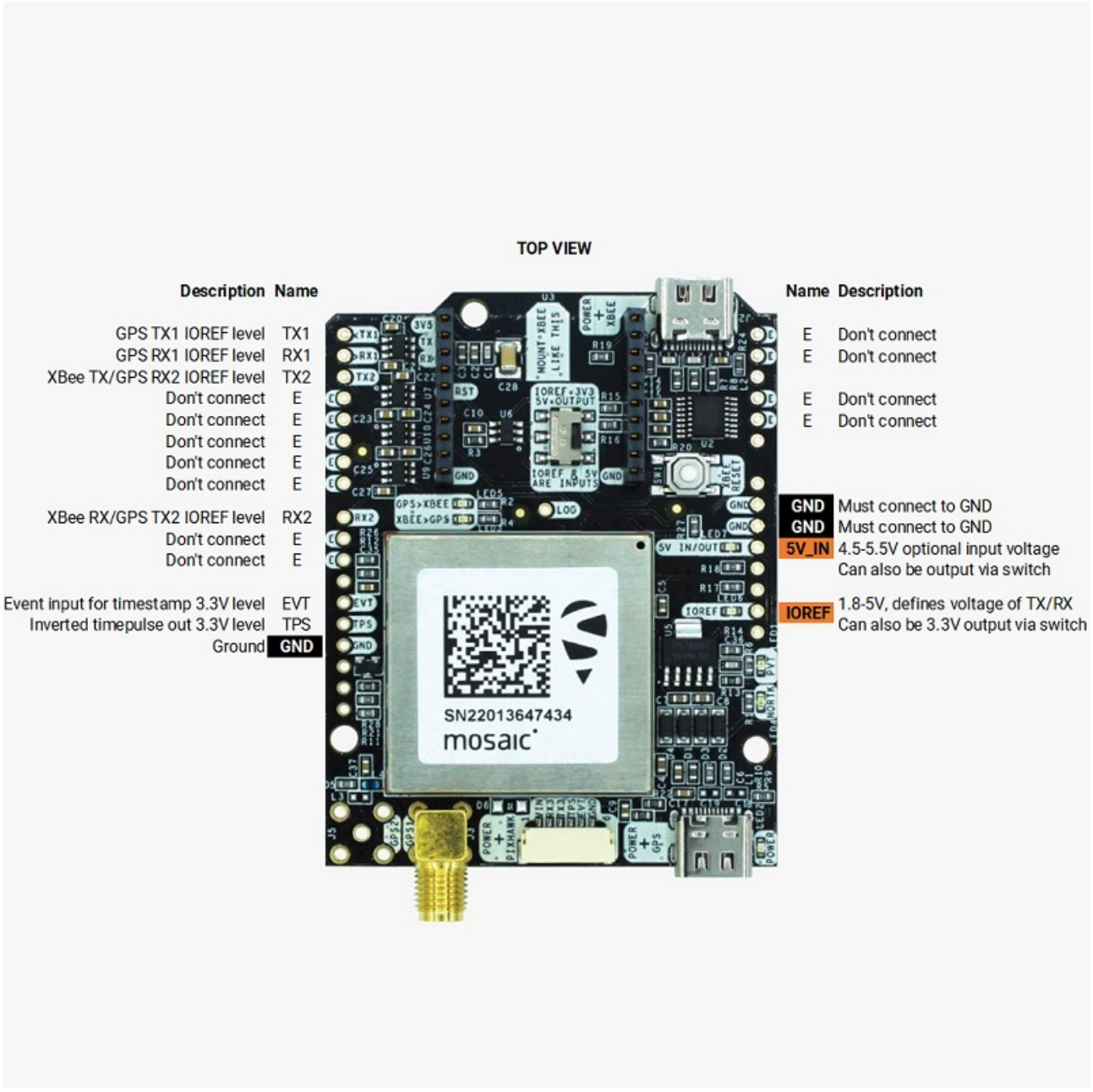
Image Gallery







Pinout



Documentation

User Guide	https://staging.ardusimple.com/simplertk3b-hookup-guide/
Antenna Installation Guide	https://staging.ardusimple.com/gps-gnss-antenna-installation-guide/
how to configure Septentrio Mosaic boards	https://staging.ardusimple.com/how-to-configure-septentrio-mosaic-x5-and-mosaic-h/

simpleRTK3B - Basic Starter Kit includes free basic technical support. Contact info@ardusimple.com for more information.
Data and descriptions in this document are subject to change without notice. Product photos and pictures are for illustration purposes only and may differ from the real product appearance.