

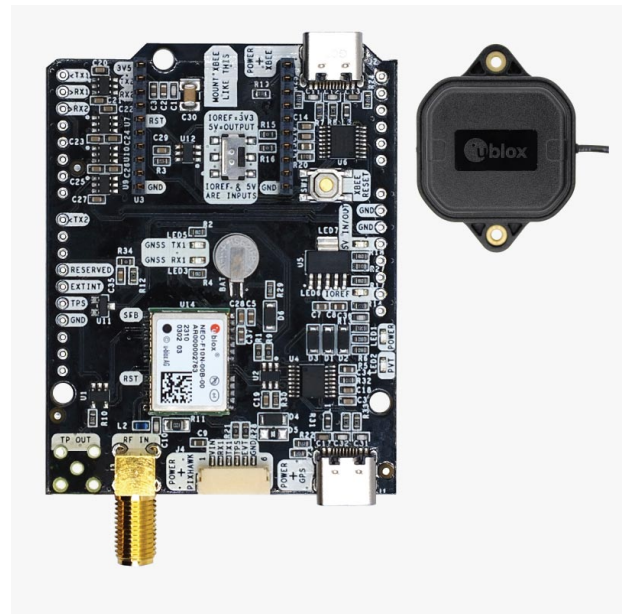
# simpleGNSS - Basic Starter Kit

Includes:

- 1 simpleGNSS Pro board (NEO-F10N)
- 1 u-blox ANN-MB1-00 Antenna for GNSS Dual Band (L1/L5) with 5m cable (IP67)



More info about the product!



simpleGNSS - Basic Starter Kit SKU is: AS-STARTKIT-BASICGNSS-L1L5-NH-00

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

## Description

This standalone set of dual band (L1/L5) GNSS board based on u-blox NEO-F10N + u-blox ANN-MB1-00 antenna is everything that you need to achieve submeter level accuracy and evaluate dual band (L1/L5) GNSS technology at the most affordable cost.

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:

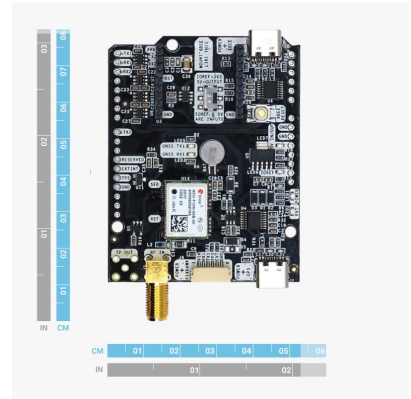
- This product is recommended if you want to evaluate u-blox NEO-F10N

## Specifications

### NEO-F10N features

- Sub meter level precision
  - <1.5m in standalone mode
  - <0.9m standalone with SBAS coverage
- Update rate
  - Default: 1Hz
  - With maximum performance: up to 8Hz
  - With reduced performance: up to 10Hz
- Multi band: L1, L5 support
- Multifrequency and Multiconstellation:
  - GPS: L1C/A L5
  - GLONASS: L1OF
  - Galileo: E1-B/C E5a
  - BeiDou: B1C B2I
  - NavIC: SPS-L5
  - QZSS: L1Sb
  - SBAS: WAAS, EGNOS, MSAS, GAGAN and SouthPan
- Start-up times:
  - First position fix: 27 seconds (cold), 2 seconds (hot)
- Operating temperature Range: -40 to +85deg
- Documentation: RED, RoHS, UKCA

## Image Gallery



# Pinout

**TOP VIEW**

Description	Name	TOP VIEW	Name	Description
GPS TX1 3.3V level	TX1		<b>GND</b>	Must connect to GND
GPS RX1 2.7V - 3.6V level	RX1		<b>GND</b>	Must connect to GND
XBee RX 2.7V - 3.6V level	RX2		<b>5V_IN</b>	4.5-5.5V optional input voltage Can also be output via switch
			<b>IOREF</b>	N/C when set as input Can be 3.3V output via switch
XBee TX 3.3V level	TX2			
Don't connect	DNC			
Input for timestamp 3.3V level	EXTINT			
Timepulse out 3.3V level	TPS			
Ground	<b>GND</b>			

## Documentation

User Guide	<a href="https://www.ardusimple.com/user-guide-simplegnss/">https://www.ardusimple.com/user-guide-simplegnss/</a>
Antenna Installation Guide	<a href="https://www.ardusimple.com/gps-gnss-antenna-installation-guide/">https://www.ardusimple.com/gps-gnss-antenna-installation-guide/</a>
3D CAD STEP Files	<a href="https://www.ardusimple.com/3d-cad-step-files/">https://www.ardusimple.com/3d-cad-step-files/</a>

simpleGNSS - Basic Starter Kit includes free basic technical support. Contact [info@ardusimple.com](mailto: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.