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## Overview

This xCHIP is equipped with a NEO-6M GPS receiver. The 50-channel u-blox 6 positioning engine boasts a Time-To-First-Fix (TTFF) of under 1 second. The dedicated acquisition engine, with 2 million correlators, is capable of massive parallel time/frequency space searches, enabling it to find satellites instantly. Innovative design and technology suppresses jamming sources and mitigates multipath effects, giving the NEO-6 GPS receivers excellent navigation performance even in the most challenging environments.

## Product Highlights

- Low Power Consumption
- High Accuracy
- GPS

## Specifications

- Based on the NEO-6M From uBlox
- 50 Channels
- GPS L1 frequency, C/A Code
- SBAS: WAAS, EGNOS, MSAS
- Cold Start<sup>2</sup> 27 s
- Warm Start<sup>2</sup> 27 s
- Hot Start<sup>2</sup> 1 s
- Aided Starts<sup>3</sup> <3 s
- Tracking & Navigation -161 dBm
- Reacquisition<sup>5</sup> -160 dBm
- Cold Start (without aiding) -147 dBm
- Hot Start -156 dBm
- Maximum Navigation update rate 5 Hz
- Configurable Timepulse frequency range 0.25 Hz to 1 kHz
- All satellites at -130 dBm

## External Links

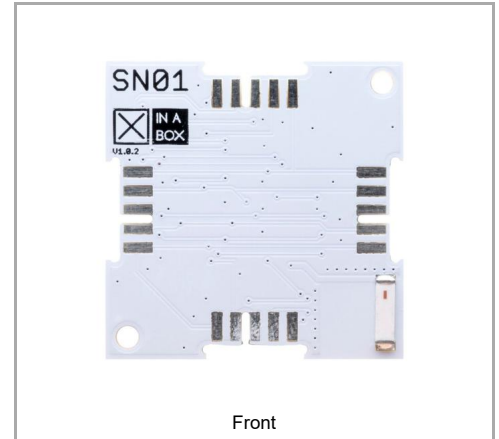
### Documents

- NEO-6-GPS-Module From uBlox ([https://www.u-blox.com/sites/default/files/products/documents/NEO-6\\_DataSheet\\_%28GPS.G6-HW-09005%29.pdf](https://www.u-blox.com/sites/default/files/products/documents/NEO-6_DataSheet_%28GPS.G6-HW-09005%29.pdf))

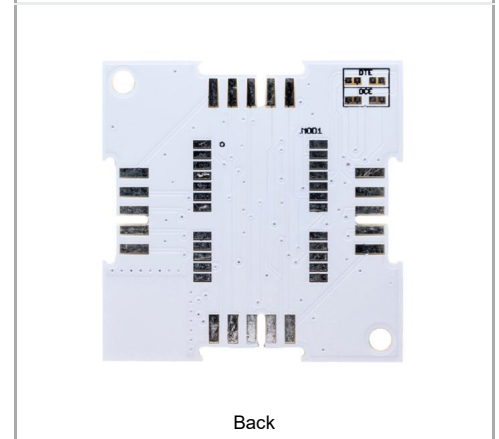
### Shop

- Buy SN01 (<https://xinabox.cc/collections/sensors/products/sn01>)

## SN01 - GNSS (GPS) (NEO-6M)



Front



Back

☒CHIP	
<b>Main Category</b>	Sensor
<b>Sub Category</b>	Navigation
<b>Introduced</b>	1 January 2017
<b>Current version</b>	1.0.0
<b>Current version date</b>	1 January 2017
Dimensions	
<b>Size</b>	2x2U (32x32mm)
<b>Weight</b>	7.4 g
<b>Height</b>	7.9/6.6/0 mm
Main Chip Set	
<b>Main Chip</b>	L80/Neo 6
Serial Configuration	
<b>Default Setting</b>	DCE
<b>Change Setting</b>	via Solder Pads
I <sup>2</sup> C Configuration	
<b>Default Address</b>	0x42