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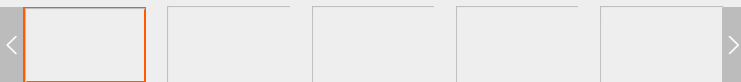
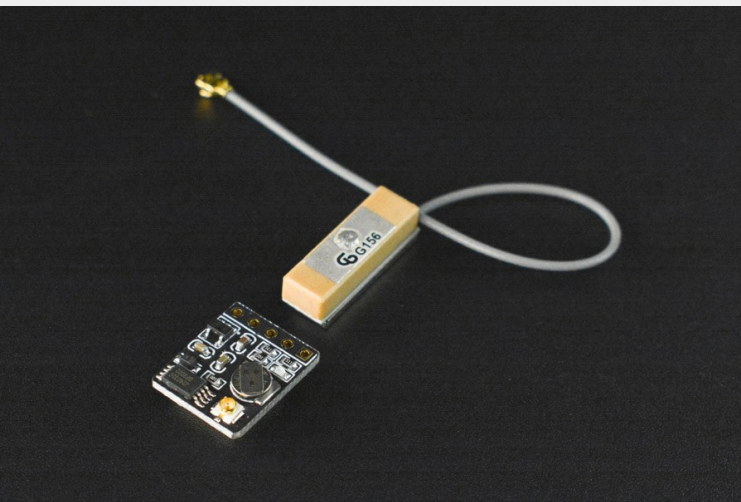
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## GPS + BDS BeiDou Dual Module

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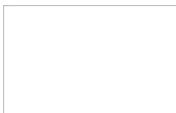
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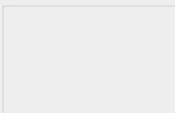
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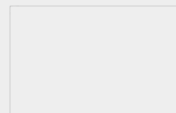
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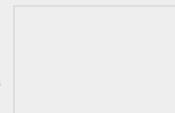
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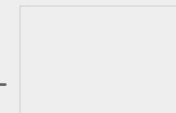
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## INTRODUCTION

This is a small-size positioning and navigation module based on the AT6558 (a real sixes in one multi-mode satellite navigation and positioning chip). It can provide real-time location information, and support a variety of satellite navigation systems, including 32 tracking channels. Besides, the module can receive GNSS signal from 6 satellite navigation systems simultaneously, which include China BDS (Beidou navigation satellite system), the American GPS, the Russian GLONASS, European GALILEO, Japan QZSS, and SBAS satellite augmentation system (WAAS, EGNOS, GAGAN MSAS), and realize the joint positioning, navigation, and timing.

In serial output mode, the is compatible with various mainboards equipped with serial output: [Arduino](#), [Raspberry Pi](#), STM32, and so on. The positioning accuracy error is measured at about 3m, basically the same as smartphones. The module's power consumption is as low as 0.1W, and it can work continuously for a long time with a small power supply.

GPS + BDS BeiDou Dual Module

The small size of the module allows it to be embedded in various types of drones and smart cars. Furthermore, this module can be very suitable for vehicle navigation, handheld positioning, and wearable devices or be used as a replacement of the Ublox MAX series module.

## SPECIFICATION

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- Operating Voltage: 3.3-5V
- SMA and IPEX Antenna Ports
- Onboard E2PROM for storing configuration settings
- Onboard XH414 rechargeable battery, speed up hot-start and search
- Support A-GNSS
- Cold- start Acquisition Sensitivity: -148dBm
- Tracking Sensitivity: -162dBm
- Positioning Accuracy: 2.5m(CEP50, open field)
- Time to First Fix: 32 seconds (or few minutes, depends on the environment)
- Low Power: <25mA (work continuously)
- Built-in antenna detection and antenna short circuit protection function
- Dimension: 13.1 x 15.7mm/0.52 x 0.62"

## DOCUMENTS

- [Product wiki](#)

## SHIPPING LIST


- GPS + BDS BeiDou Dual Module x1
- Connector x1
- Pin x1


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