

The Yocto-GPS device is a 32 channels receiver for GNSS signals emitted by GPS and GLONASS satellites, that enables it to determine the position of the receiver, its speed as well as the current time. The latitude and the longitude at any time can be recorded on the internal flash memory, in order to build a data history that can be retrieved later on over USB.

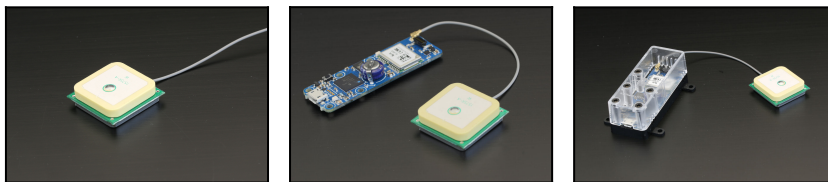
The device can provide its positioning data at 10Hz, with a resolution of 10⁻⁶ degrees, e.g. 10cm approximately. The expected absolute accuracy with clear satellite view is about 1.5m.

This device uses an external active antenna, using a U.FL (IPEX) connector. A small patch antenna (25x25mm, without enclosure) with a 10cm cable is included with the device. You can also use any other active GPS antenna, for instance a larger antenna in a waterproof enclosure with a long cable, using the U.FL to SMA adapter available separately.

Specifications

Product ID	YGNSSMK1
USB connector	micro-B
Width	20 mm
Length	60 mm
Weight	21 g
Channels	32
Chipset	Telit SL869
Refresh rate	10 Hz
Accuracy	1.5 m
Resolution	10 cm
IEC protection class	class III
Normal operating temperature	5...40 °C
Extended operating temperature [‡]	-25...85 °C
RoHS compliance	RoHS III (2011/65/UE+2015/863)
USB Vendor ID	0x24E0
USB Device ID	0x0053
Suggested enclosure	YoctoBox-Long-Thick-Black
Harmonized tariff code	8542.3190
Made in	Switzerland

[‡] The extended temperature range is defined based on components specifications and has been tested during a limited duration (1h). When using the device in harsh environments for a long period of time, we strongly advise to run extensive tests before going to production.



For more information: www.yoctopuce.com/EN/products/yocto-gps