

MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com

**GPS 5 Click** 

www.mikroe.com





PID: MIKROE-5298

GPS 5 Click is a compact add-on board that provides users with positioning, navigation, and timing services. This board features the M20050-1, a compact GPS module receiver using the MediaTek MT3333 flash chip, providing a complete GNSS receiver for optimum performance from Antenova. The receiver tracks 3 GNSS constellations concurrently (GPS+Galileo+GLONASS or GPS+Beidou) to considerably enhance location and TTFF (Time-to-first-fix) and has configurable low power modes operating from a 3.3V power supply. In addition to the possibility of using an external antenna, backup power, and various visual indicators, the M20050-1 also has an accurate 0.5ppm TXCO ensuring short TTFF alongside multi-path algorithms, which improves position accuracy in inner-city environments. This Click board ™ is suitable for a broad spectrum of GPS applications where performance, cost, and time to market are prime considerations.

GPS 5 Click is supported by a  $\underline{\mathsf{mikroSDK}}$  compliant library, which includes functions that simplify software development. This  $\underline{\mathsf{Click}}$  board  $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$  comes as a fully tested product, ready to be used on a system equipped with the  $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$  socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.









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## **Specifications**

Туре	GPS/GNSS
Applications	Can be used for asset tracking/ personal safety, navigation devices, and sports equipment applications
On-board modules	M20050-1 - compact GPS module receiver from Antenova
Key Features	Drop in GNSS receiver module (GPS/GLONASS/Galileo/Beidou), MediaTek MT3333 flash chip, low power consumption, interference cancellation, internally generated orbit prediction for short time to first fix, external antenna, and more
Interface	UART
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

## Resources

mikroBUS™

**mikroSDK** 

Click board™ Catalog

Click boards™

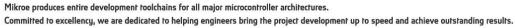
## **Downloads**

GPS 5 click example on Libstock

M20050-1 datasheet

GPS 5 click 2D and 3D files

**GPS 5 click schematic** 







health and safety management system.