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
www.mikroe.com

GPS 5 Click





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 mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ 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.

ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.

ISO 9001: 2015 certification of quality management system (QMS).

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
www.mikroe.com

Specifications

Type	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
ClickID	No
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

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.

ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.

ISO 9001: 2015 certification of quality management system (QMS).