

GNSS 12 Click



PID: MIKROE-5527

GNSS 12 Click is a compact add-on board that provides fast positioning capability. This board features the CAM-M8C, a professional-grade GNSS module built on the high-performing M8 GNSS engine from u-blox. This module utilizes concurrent reception of up to three GNSS systems (GPS/Galileo together with either BeiDou or GLONASS), offering high sensitivity and strong signal levels. Besides internal, the CAM-M8C can use an optional external active antenna. It has a configurable host interface, advanced jamming/spoofing detection, and provides outstanding positioning accuracy even in GNSS-hostile environments. This Click board™ is suitable for industrial and consumer applications that require concurrent GPS/Galileo and GLONASS or GPS/Galileo and BeiDou reception.

GNSS 12 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).

Specifications

Type	GPS/GNSS
Applications	Can be used for industrial and consumer applications that require concurrent GPS/Galileo and GLONASS or GPS/Galileo and BeiDou reception
On-board modules	CAM-M8C - concurrent GNSS chip antenna module from u-blox
Key Features	Low power consumption, concurrent reception of up to 3 GNSS (GPS/Galileo, GLONASS, BeiDou), high sensitivity, omnidirectional and wideband antenna (optional external), selectable interface, advanced jamming and spoofing detection, and more
Interface	I2C,SPI,UART
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[GNSS 12 click example on Libstock](#)

[GNSS 12 click 2D and 3D files](#)

[MAX40200 datasheet](#)

[CAM-M8C datasheet](#)

[GNSS 12 click schematic](#)

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