

UWB Click



PID: MIKROE-4199

UWB Click is an Ultra-Wideband transceiver Click board™ that can be used in 2-way ranging or TDOA location systems to locate assets to a precision of 10 cm and supports data rates of up to 6.8 Mbps. This Click board™ features the [DWM1000](#) module based on Qorvo's DW1000 Ultra-Wideband (UWB) transceiver from [Qorvo](#). It features a frequency range from 3.5GHz to 6.5GHz, a very precise location of tagged objects, up to 6.8Mbps data rates, low power consumption, and more while the communication with the MCU is accomplished through a standard SPI serial interface. This Click board™ is optimized for applications in real-time location systems and wireless sensor networks across a variety of markets including agriculture, building control and automation, factory automation, healthcare, safety & security, warehousing & logistics, and a range of others.

UWB 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	UWB
Applications	Can be used for applications in real time location systems and wireless sensor networks across a variety of markets including agriculture, building control and automation, factory automation, healthcare, safety & security, warehousing & logistics and a range of others.
On-board modules	UWB Click is based on Decawave's DWM1000, UWB compliant wireless transceiver module from Decawave Limited.
Key Features	Low power consumption, high precision...
Interface	GPIO, SPI
ClickID	No
Compatibility	mikroBUS™
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[DWM1000 datasheet](#)

[UWB click 2D and 3D files](#)

[UWB click example on Libstock](#)

[UWB click schematic](#)

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