

UWB 3 Click



PID: MIKROE-5898

UWB 3 Click is a compact add-on board that brings Ultra-Wideband communication to your application. This board features the [DWM3001](#), a fully integrated UWB transceiver module from [Qorvo](#). The module integrates the DW3110 IC, nRF52833 MCU, planar UWB antenna, accelerometer, power management, and crystal. It is a fully calibrated, tested, and validated design. This Click board™ makes the perfect solution for the development of precision real-time location systems (RTLS) using two-way ranging or TDoA schemes in various markets, location-aware wireless sensor networks (WSNs), and more.

UWB 3 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this Click board™ apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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

Applications	Can be used for the development of precision real-time location systems (RTLS) using two-way ranging or TDoA schemes in various markets, location-aware wireless sensor networks (WSNs), and more
On-board modules	DWM3001 - fully integrated UWB transceiver module from Qorvo
Key Features	Support IEEE 802.15.4 - 2015, and IEEE 802.15.4z BPRF, fully aligned with FiRa™ PHY, MAC, and certification development, supports channels 5 and 9, Bluetooth, AES-128/256 security block, low power consumption, and more
Interface	I2C,SPI,UART,USB
ClickID	Yes
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[ClickID](#)

Downloads

[NCP1117 datasheet](#)

[UWB 3 click example on Libstock](#)

[UWB 3 click schematic](#)

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

[DWM3001C datasheet](#)

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