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# 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.

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# 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 FiRaTM 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

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).