

MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918

Phone: + 381 1178 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com

UWB 2 Click





PID: MIKROE-5410

UWB 2 Click is a compact add-on board that brings Ultra-Wideband communication to any solution. This board features the DWM3000, an IEEE 802.15-z UWB transceiver module from Qorvo. This module fully aligns with FiRaTM PHY, MAC, and certification development. It uses an integrated UWB antenna to establish wireless communication in UWB channels 5 (6.5GHz) and 9 (8GHz). This Click board ™ makes the perfect solution for developing 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 2 Click is supported by a $\underline{\mathsf{mikroSDK}}$ compliant library, which includes functions that simplify software development. This $\underline{\mathsf{Click}}$ board $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ comes as a fully tested product, ready to be used on a system equipped with the $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ 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.





health and safety management system.



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Specifications

Туре	UWB
Applications	Can be used for for developing 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	DWM3000 - IEEE 802.15-z UWB transceiver module from Qorvo
Key Features	Ultra-wideband transceiver supporting UWB channels 5, and 9, fully aligned with FiRaTM PHY, MAC, and certification development, IEEE 802.15.4-2015 and IEEE 802.15.4z BPRF compliant, programmable transmitter output power, fully coherent receiver for maximum range and accuracy, low power consumption, integrated MAC support features, and more
Interface	SPI
ClickID	Yes
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

UWB 2 click example on Libstock

UWB 2 click 2D and 3D files

DWM3000 datasheet

UWB 2 click schematic

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