



BlueModue BM5270-UWB

The lowest power consumption WiFi6 module with BLE and UWB

The BM5270-UWB module is based on NRF52840, and integrates the NRF7002 WiFi 6 certified IC, plus DW1000 ultra-wideband transceiver IC, which is an IEEE 802.15.4a UWB implementation.

It integrates UWB (Channel 5), BLE and WiFi dual-band antennas and RF circuitry, all together in a CE certified module.

Development kits available in Arduino Shiled and Click Board formats.

Key features:

- Multiprotocol Bluetooth 5.4 SoC supporting BLE, Bluetooth Mesh, Thread and Zigbee.
- 2.4 GHz and 5 GHz dual band low power and secure WiFi 6 Station.
- Complies with 802.11a/b/g/n/ac/ax.
- UWB Channels: 1, 2, 3, 4, 5, and 7.
- 64 MHz Cortex-M4 with FPU.
- Supported in nRF Connect SDK, with Zephyr RTOS.
- BlueStacks UWB available for high precision real time location systems. 15 cm precision in 2D, 30 cm precision in 3D.
- BlueStacks Hardware Abstraction Layer available with device overlays for easily develop the application layer, without dealing with the development and debugging of low-level libraries.

