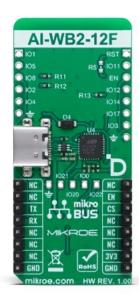


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Ai-WB2-12F Click





PID: MIKROE-5983

Ai-WB2-12F Click is a compact add-on board for easy integration into the Internet of Things (IoT) and smart home applications. This board features the <u>Ai-WB2-12F</u>, a WiFi and BLE module from <u>Ai-Thinker Technology</u>, powered by the BL602 chip supporting WiFi 802.11b/g/n and BLE 5.0 protocols. With a low-power 32-bit RISC CPU, 276KB of RAM, and various peripheral interfaces, it is well-equipped for a wide range of development projects. The module has an inbuilt PCB antenna, extensive WiFi security protocols, and many operational modes, making it highly efficient for power-sensitive applications. It also supports secure boot, AES encryption, and a public key accelerator, which ensures safe operation. This Click board [™] is perfect for developers who need WiFi and BLE for their projects, providing a simple and secure platform for creating IoT, wearable, and smart home devices.

Ai-WB2-12F 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.







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Specifications

Туре	WiFi+BLE
Applications	Ideal for developers who need WiFi and BLE for their projects, providing a simple and secure platform for creating IoT, wearable, and smart home devices
On-board modules	Ai-WB2-12F - WiFi and BLE module from Ai- Thinker Technology
Key Features	Supporting WiFi 802.11b/g/n and BLE 5.0 protocols, low-power 32-bit RISC CPU, many peripheral interfaces, onboard PCB antenna, WiFi security protocols, BLE 5.0 and Bluetooth Mesh, encryption and security, and more
Interface	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

Click Boards™

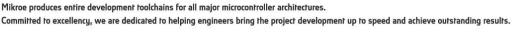
Downloads

Ai-WB2-12F click example on Libstock

Ai-WB2-12F datasheet

Ai-WB2-12F click 2D and 3D files

Ai-WB2-12F click schematic







health and safety management system.