

ESP8684 Click



PID: MIKROE-5803

ESP8684 Click is a compact add-on board that contains a wireless combo module. It features the [ESP8684-MINI-1](#), a highly integrated WiFi, and a Bluetooth 5 module from [Espressif Systems](#). It simultaneously supports BSS in Station mode, SoftAP mode, Station + SoftAP mode, and promiscuous mode. As for the Bluetooth 5, the module supports central role and peripheral role. In addition, ESP8684 Click allows you to upgrade or upload your custom software on the ESP8684 module over the USB C connector. This Click board™ makes the perfect solution for the development of smart home applications, industrial automation, consumer electronics, health care, smart agriculture, and more.

ESP8684 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) 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.



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

Type	BT/BLE,WiFi
Applications	Can be used for the development of smart home applications, industrial automation, consumer electronics, health care, smart agriculture, and more
On-board modules	ESP8684-MINI-1 - highly integrated WiFi, and a Bluetooth 5 module from Espressif Systems
Key Features	Highly integrated module, printed PCB antenna, ESP8684 32-bit RISC-V single core processor at 120MHz (272KB SRAM, 576KB ROM), WiFi 802.11b/g/n modes (Station, SoftAP, Station+SoftAP, promiscuous), WiFi Multimedia, Bluetooth 5, high power mode 20dBm, multiple advertisement sets, 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

[NCP1117 datasheet](#)

[CP2102N datasheet](#)

[ESP8684 click 2D and 3D files](#)

[ESP8684 click schematic](#)

[ESP8684 click example on Libstock](#)

[ESP8684-MINI-1 datasheet](#)

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