

Wireless SUN Click



PID: MIKROE-5338

Wireless SUN Click is a compact add-on board representing a Wireless Smart Utility Network for Field Area Network (Wi-SUN FAN) solution. This board features the [BP35C5](#), a Wi-SUN FAN-compatible wireless communication module from [Rohm Semiconductor](#). The BP35C5 operates in the 920MHz band and includes a Wi-SUN software stack that enables operation at different transmission modes for high efficiency. Besides, certification under ARIB and the FCC allows immediate use in Japan and the US in large-scale (up to 1,000-node Sub-GHz) multi-hop mesh networks supporting channel hopping. This Click board™ is suitable for social infrastructures such as traffic lights and street lights, smart buildings, and logistics, allowing a remote management system to be built that covers the entire city.

Wireless SUN 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 | Sub-1 GHz Transceivers |
| Applications | Can be used for social infrastructures such as traffic lights and street lights, smart buildings, and logistics |
| On-board modules | BP35C5 - ultra-compact Wi-SUN FAN compatible wireless communication module from Rohm Semiconductor |
| Key Features | Wi-SUN FAN certified, supports multi-hop mesh network and channel hopping, high data rates, adjustable transmission power, built-in Wi-SUN FAN software stack, and more |
| Interface | UART |
| ClickID | No |
| 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

[Wireless SUN click example on Libstock](#)

[Wireless SUN click 2D and 3D files](#)

[BP35C5 datasheet](#)

[Wireless SUN click schematic](#)

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).