

## Product Brief

### Type 1GC Module

# Network controller module

## Shielded ultra-small dual band WiFi 11a/b/g/n+Ethernet+MCU module

### Features

- 2.4GHz & 5GHz WiFi+Ethernet MCU module
- Network topology: AP and STA dual mode
- Chipset: Cypress (CYW43907)
- Processor: ARM Cortex-R4
- Modulation: DSSS / CCK / OFDM
- FCC/IC “reference” certified

### High performance capabilities for IoT

- For industrial IoT, smart home, sensor network, gateway
- 802.11 a/b/g/n 150Mbps, Wifi Stack runs inside
- Cypress WICED, USB 2.0, SDIO 3.0 host and device mode

### Description

Type 1GC is a small and high performance module based on Cypress CYW43907 chipset which support WiFi 802.11a/b/g/n up to 150Mbps PHY data rate and Ethernet up to 100Mbps PHY data rate, plus integrated powerful 320MHz ARM Cortex-R4 MCU for host-side applications.

Type 1GC enables high throughput consumer applications with its ARM Cortex-R4 MCU with no additional components.

Type 1GC network controller module provide device manufacturers with an easy-to-design solution for data acquisition, device management, WiFi-Ethernet gateway and industrial control applications. USB 2.0 and SDIO 3.0 host and device mode are supported to have high speed external communication. RF matching, Antenna design and Regulatory certification are already taken care of and tested.

Each module offers a complete network controller solution. The WiFi, TCP/IP, security supplicant and other network application features are hosted directly on the module.

Yet, the feature-rich Type 1GC module is packaged in an impressively small form factor that facilitates integration into size- and power-sensitive applications.

For more details see: <https://wireless.murata.com/type1gc.html>



Part number: LBWA1UZ1GC



Actual size  
(10.0 x 10.0 x 1.2 mm)