

Network controller module

Shielded small Wi-Fi® 11b/g/n + MCU module

Features

- 2.4GHz Wi-Fi®+MCU module with integrated PCB antenna
- Network topology: uAP or STA mode
- Chipset: NXP (88MW320) wireless microcontroller
- Processor: ARM Cortex-M4F
- Modulation: DSSS / CCK / OFDM
- FCC/CE/IC Certified

Feature rich software hosted on module

- For Industrial IoT, smart home, sensor network, gateway
- 802.11 b/g/n 72.2 Mbps, Wi-Fi® Stack runs inside, 512KB SRAM, 128KB mask ROM, and 2MB SPI Flash on module
- NXP WMSDKA tool provides comprehensive support

Description

Type ABR is a small module (integrated PCB antenna) based on NXP 88MW320 (wireless microcontroller), supporting Wi-Fi® 802.11 b/g/n up to 72.2 Mbps PHY data rate; with an integrated 200 MHz ARM Cortex-M4F MCU for host-side applications.

Type ABR easily enables stand-alone consumer applications with its integrated ARM Cortex-M4F MCU. NXP's powerful WMSDKA and MCUXpresso tools allow customers to quickly and easily customize their solution in both hosted and hostless architectures.

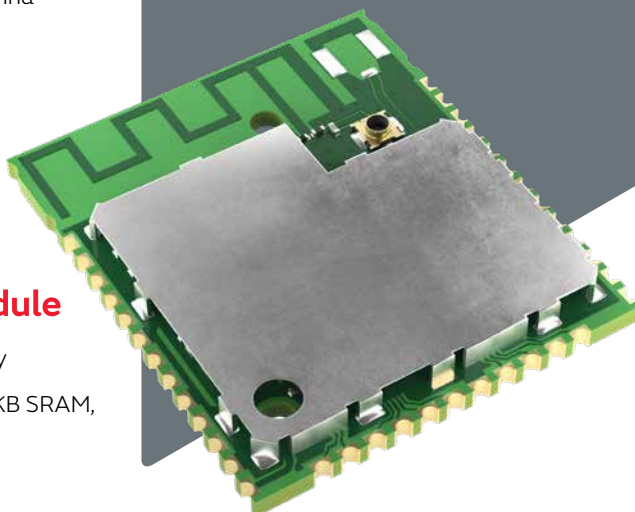
Type ABR network controller module provides device manufacturers with an easy-to-design solution for data acquisition, device management, and industrial control applications.

RF matching, Antenna design and Regulatory certification are already taken care of and tested. Each module offers a complete network controller solution via a simple UART interface. The Wi-Fi®, TCP/IP, security supplicant and other network application features are hosted directly on the module. Amazon Alexa Voice Service (AVS) is also supported.

The feature-rich Type ABR module is packaged in a small form factor that facilitates integration into size- and power-sensitive applications.

More details:

- <https://wireless.murata.com/type-abr.html>



Actual size

Size: 22.0 x 19.0 x 2.4mm

Type ABR Specifications

Murata part number	CMWC1ZZABR-107
Murata EVB part number	CMWC1ZZABR-107-EVB
Technology	Wi-Fi + MCU
Chipset	NXP 88MW320
Wi-Fi specification	802.11b/g/n
Bluetooth specification	N/A
Frequency (GHz)	2.4
Hosted/Hostless architecture	Hosted/Hostless
Software	WMSDKA, MCUXpresso
Wi-Fi interface	UART, SPI
Bluetooth interface	N/A
MAX data rate - Wi-Fi (Mbps)	72.2
MAX data rate - Bluetooth (Mbps)	N/A
Interface voltage (V)	1.8, 3.3
Operating temp. Range (°C)	-30 to +85
Antenna configuration	PCB trace antenna
Regulatory certification	FCC/CE/IC

Note: CE marking and declaration should be done by customer as a final product