

Type ABR module

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 and STA dual 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 EZ-Connect™ (WMSDKA), MCUXpresso, and AVS 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 200MHz 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 tool allows customers to quickly and easily customize their solution - including Amazon Alexa Voice Service support (AVS). NXP also provides a MCUXpresso-integrated solution whereby Murata's Type ABR mikroBUS EVB is paired up with NXP LPCXpresso55S16/28/69 Development Boards.

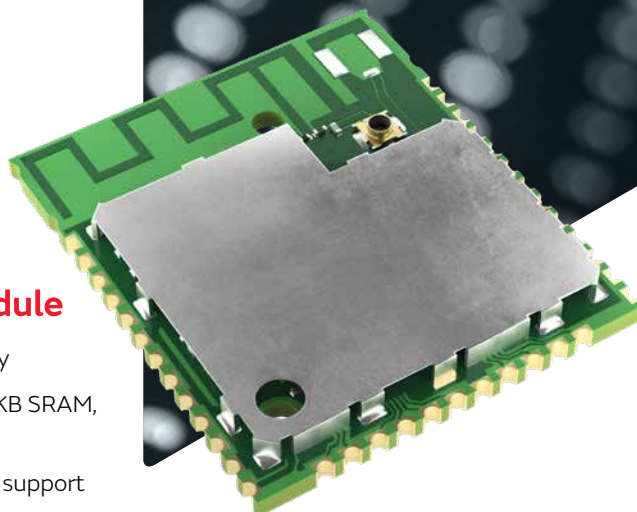
Type ABR network controller module provides device manufacturers with an easy-to-design solution for data acquisition, device management, and industrial control applications.

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 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	EZ-Connect, 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	Integrated PCB trace antenna
Regulatory certification	FCC/IC, CE

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