

## Product Brief

### Type 2FR/2FP Module

# Hostless Dual Band Wi-Fi 6 + Bluetooth® 5.3/802.15.4 Module

Small, highly integrated, high-performance, secured, Matter enabled

## Description

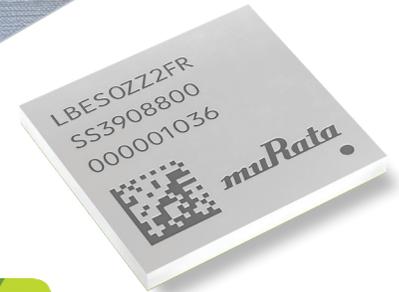
Type 2FR/2FP is a family of small and highly integrated multi-radio modules with built-in high-performance MCU with advanced security features for connected smart devices in smart homes, enterprise and industrial automation, smart accessories, and smart energy. It supports the latest Matter smart home connectivity protocol.

## Specifications

Product Name	Type 2FR / 2FP
Wireless IC	NXP RW61x
MCU	260 MHz Arm® Cortex® -M33
WLAN	IEEE 802.11a/b/g/n/ac/ax; SISO with 20 MHz channels; up to MCS9 data rates
Bluetooth LE	v5.3 Class 2
802.15.4	OpenThread (2FR only)
Memory	1.2 MB SRAM; 16MB Flash; External PSRAM interface for system memory expansion up to 128 MB
Peripheral Interfaces	64 GPIOs, FlexSPI, SDIO 3.0, Ethernet, USB, USART, I2C, SPI, I2S, PCM, ACOMP, DAC, ADC, JTAG
Built-in Security Features	NXP EdgeLock™ security technology
Antenna	RF signal from pin pad
Dimensions (LxWxH)	12.0 (typ.) x 11.0 (typ.) x 1.5mm (max.)
Package Type	LGA Surface-mount
EMI Shielding	Conformal SR Molding
Operating Temperature	-40 to 85°C
Software Platform	NXP MCUXpresso
Regulatory Certification	FCC/ISED/ESTI/MIC (Plan)
RoHS Compliant	Yes
Bluetooth QDID	TBD

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**Partnership:** In collaboration with NXP Semiconductors

## Benefits

- Tri-Radio (Wi-Fi 6+BLE/Thread) and Matter enabled
- High performance MCU core for user applications
- Low power consumption
- Integrated security features
- Rich peripheral interfaces
- Small dimension
- Fully certified with external antenna options

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