

# RZ Ecosystem Partner Solution

## Silex Wi-Fi & Bluetooth® Combo Module



### Solution Summary

This product is a tri-band wireless LAN combo module dedicated to Renesas [RZ/G2E](#) MPU that supports the new wireless LAN standard IEEE 802.11ax (Wi-Fi 6/Wi-Fi 6E\*1), and Bluetooth® v5.2. The module is equipped with Qualcomm's WCN6856 chipset, and supports Wi-Fi 6 features such as MU-MIMO and OFDMA. This wireless LAN module is ideal for the development of next-generation wireless LAN devices that can increase communication speed, efficiency, and stability.

\*1: Certification for the 6GHz band for Japan has not been obtained (will be obtained).  
Overseas (U.S.A., Canada, Europe, U.K.), the 6 GHz band can be used.

### Features/Benefits

- Supports IEEE802.11ax (Wi-Fi6)
- Supports 2.4GHz, 5GHz, and 6GHz \*1 bands.
- Supports Bluetooth® v5.2
- Device Interfaces
  - PCIe for Wi-Fi
  - USB for Bluetooth
- Multiple shapes to meet various needs
  - M.2 2230 type
  - Half Mini Card type
- Wireless standard support
  - Japan
  - U.S.A
  - Canada
  - Europe
  - U.K.
- Open source driver integration instructions are available.

### Diagrams/Graphics



SX-PCEAX-M2



SX-PCEAX-HMC

### Target Markets and Applications

- Logistics / Transportation
- Medical / Healthcare
- Retail
- Workplace

# Absolutely Must Connect Our “AMC” Approach



Software to visualize wireless environments

Technology to use the limited wireless bands efficiently

Fast connections, Fast communications and Low-latency features

Customized driver based on product characteristics

Hardware with optimized chip features

## Sales and Support

Japan

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