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

https://www.silex.jp/products/wireless-module/sxpceaxr.html

2022.11
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
silex@silex.jp
Phone: +81-774-98-3781