# **RX Ecosystem Partner Solution**

# SX-ULPGN – Ultra-Low-Power Wi-Fi IoT Module



#### **1.Solution Summary**

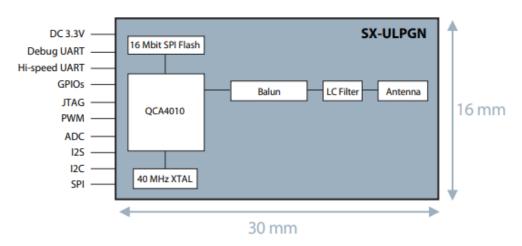
The SX-ULPGN is an ultra-low-power Wi-Fi IoT module that works out-of-box with the RX family of MCUs. This low power Wi-Fi IoT module is based on QCA4010 radio from Qualcomm. It is ideal. The SX-ULPGN module is an excellent choice for device OEMs looking to design Wi-Fi connected products in a cost-effective way.

#### 2. Features/Benefits

- IEEE 802.11b/g/n-compliant (2.4 GHz)
- QCA4010 Radio
- Single Stream System (1x1)
- 20 MHz Integrated RF front end
- · PCB trace antenna
- · Host-less or hosted stack Options

- Modular Certifications
- AllJoyn support
- · Wi-Fi Protected Setup
- IEEE sleep, fast wake-up, low power Rx

#### 3. Diagrams/Graphics



## 4. Target Markets and Applications

- Smart Building
- Appliances and Remote Controls
- Automation, Smart City
- Lighting



https://www.silextechnology.com/renesas



# Why Choose Silex Technology?

#### Reliability

- 40 years of hardware and software connectivity know-how and IP
- RF design optimization
- · Enhanced driver/security supplicant
- Unmatched support provided by local engineering resources

#### Quality

#### Know-How

- · Conformance to IEEE standards
- · Wi-Fi Alliance certification testing at an authorized third party lab
- ISO 9001:2000 quality management system
- RF functional test for 100% of radio modules
- 5GHz design experience
- · Enterprise security
- Seamless roaming
- · Low-power consumption management

At Silex Technology, our expertise is built on more than 40 years of hardware and software connectivity know-how and IP, custom design development experience, and manufacturing capabilities. With relentless attention to quality, exclusive access to Qualcomm Atheros silicon and expertise, and strategic partnerships with leading real-time operating system (RTOS) and semiconductor providers, we are the trusted leader in reliable Wi-Fi connectivity.

### Silex Technology Support from Design through Deployment

**Design Validation** Hardware Software Mass Agency Kickoff Prototype Integration Testing Certifications Production

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