

# SX-ULPGN-EVK

## Hostless 802.11n Wi-Fi

### Internet-of-Things Evaluation Kit



Conveniently Evaluate SX-ULPGN Wi-Fi Module  
Develop Hostless & Hosted\* IoT Applications

SX-ULPGN-EVK is an ultra-low-power 802.11b/g/n hostless Wi-Fi IoT evaluation kit. It enables rapid development of cost-effective Wi-Fi connectivity for embedded devices. It features the SX-ULPGN module and access to the module's bootstrap options, mode configuration, interface extension, peripheral access and power supply. SX-ULPGN-EVK brings out the UART, SPI, I2C, I2S, PWM, ADC, JTAG, and GPIO interfaces of the module. SX-ULPGN-EVK can also be used for module manufacturing test.

Powered by Qualcomm's QCA4010 intelligent IoT platform, SX-ULPGN-EVK provides several modes of connectivity including Station, Access Point, and P2P (Wi-Fi Direct) enabling easy transfer of content anytime, anywhere.

SX-ULPGN-EVK ships with the QCA SDK shell application program which helps you evaluate the basic wireless functions below:

- Basic wireless connectivity
- AP Scan, WPA configuration
- Basic TCP/IP function with HTTP, DNS and SNTP
- Soft Access Point (AP), WPA client
- Wireless Configuration (DTIM, Bitrate etc.)

\* UART AT command set for Hosted Use Case coming soon in a future release

SX-ULPGN-EVK is based on the QCA4010 Reference Hardware & Software. The Software and documentation are available on the Qualcomm Developer Network (coming soon): <https://developer.qualcomm.com>

#### Software Features

- **Modes:** Station, AP, and P2P (Wi-Fi Direct)
- **Authentication Methods:** Open System WPA-PSK (WPA2-PSK)
- **Encryption Method:** None, TKIP, and AES
- **Protocols Supported on Chip:** IPv4, IPv6, DNS, SNTP, HTTP, SSL/TLS, and WPS
- **Application Development:** AllJoyn® and ThreadX OS (Tensilica Tools)
- **JTAG Debugging**
- **Over-The-Air (OTA) Programming**

#### What is Included

- SX-ULPGN Evaluation Assembly
- Silex Evaluation Firmware Image
- USB-to-UART Cable Assembly for UART & Power (+5V)
- EVK Quick Start Guide Insert

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