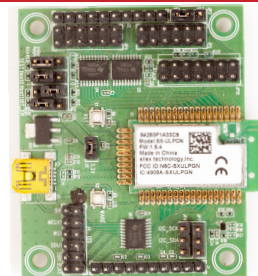


# SX-ULPGN-EVK-AT

## 802.11n Wi-Fi Internet-of-Things Evaluation Kit with UART AT Command Set



Conveniently Evaluate SX-ULPGN Wi-Fi Module  
Add Wi-Fi to your Host MCU Based IoT Applications

SX-ULPGN-EVK-AT is an ultra-low-power 802.11b/g/n 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-AT brings out the UART, SPI, I2C, I2S, PWM, ADC, JTAG, and GPIO interfaces of the module. SX-ULPGN-EVK-AT can also be used for module manufacturing test.

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

SX-ULPGN-EVK-AT ships with the Silex UART AT Command Set which helps you evaluate many wireless functions.

- Access Point Mode & Station Mode
- IEEE802.11 Power Save Mode
- Suspend (Store Recall, Power Off)
- Suspend (Sleep Wakeup, Host Deep Sleep)
- TCP/IP & UDP Offload
- HTTP Server Built-In for On-boarding
- HTTP Client Supported
- DHCP Client and DHCP Server
- DNS Client and DNS Server
- Socket API for Up to 4 UDP or TCP client/server Sockets

SX-ULPGN-EVK-AT is based on the QCA4010 Reference Hardware & Software. The Software and documentation are available on the Qualcomm Developer Network: <https://developer.qualcomm.com/hardware/qca4010-12>

### Software Features

- **Modes:** Station, AP
- **Authentication Methods:** Open System  
WPA-PSK, WPA2-PSK
- **Encryption Method:** None, WEP, TKIP, and AES (CCMP)
- **WPS Method:** Enrollee (PIN/PBC)
- **Protocols Supported on Chip:** IPv4, IPv6, DNS, SNTP, HTTP, SSL/TLS, DHCP, and WPS
- **Application Development:** Silex UART AT Command Set Specification
- **JTAG Debugging**
- **Over-The-Air (OTA) Firmware Update**
- **UART Based Firmware Update:** XMODEM Based

### What is Included

- SX-ULPGN Evaluation Assembly Including SX-ULPGN-2000-WW Module
- Silex UART AT Command Set Binary Firmware Image
- USB-to-UART Cable Assembly for UART & Power (+5V)
- EVK Quick Start Guide Insert

silex technology is a registered trademark of silex technology, Inc. Other product or brand names may be registered trademarks or trademarks of their respective owners. Technical information and specifications are subject to change without notice. © 2017 silex technology, Inc. All rights reserved.

### silex global sales & support locations