silex technology

When it **Absolutely Must** Connect

SX-PCEGN-BT
802.11b/g/n PCIe Express mini-Card
with Bluetooth v4.0

High Performance Combo PCIe Module

The SX-PCEGN-BT is based on Qualcomm Atheros AR9485 and AR3012 radio chip. It is a 802.11bgn 1x1 plus Bluetooth 4.0 solution.

Including the Qualcomm Atheros Align 1-stream in 802.11n, the SX-PCEGN-BT is able to significantly reduce operating power and provide best in class features that greatly impact battery life in mobile platforms. Backward compatible with 802.11b/g and forward compatible with multi-stream 802.11n the SX-PCEGN-BT is the ideal WiFi solution for users seeking robust throughput, enhanced range and extended battery life.

The Silex SX-PCEGN-BT offers power consumption 30 to 50% lower than competing solutions. Enabled by the enhanced Qualcomm Atheros PHY architecture, 55nm manufacturing technology and extremely efficient power amplifiers. The unit also supports a unique Green Transmission mode, which dynamically adjusts the system's WiFi transmit power depending upon the distance between the Access Point and the client.

Support for Bluetooth v4.0 and HS, as well as the Qualcomm Atheros Universal Wireless Cooperation specification provides maximum performance from both the Bluetooth and WLAN radios.

Key Features:

- Qualcomm Atheros AR9485 WLAN + AR3012 BT4.0 chipsets
- IEEE 802.11b/g/n compliant 2.4GHz
- Single Stream 1x1 with data rates up to 150Mb/s
- PCI Express Half-miniCard compliant
- Signal Sustain Technology (SST) rate over range enhancements like LDPC and MLD
- Low power sleep modes and Wake-on-Wireless (WoW) supported
- USB 2.0 Device Interface supports Standard HCI USB
- North America(FCC/IC), Japan (TELEC) certification
- RoHS Compliant

Benefits:

- Low power operation with advanced power saving modes.
- Single stream 1x1 with data rates up to 150Mb/s
- PCI Express Half-mini-Card compliant
- The SX-PCEGN-BT supports the standard HCI USB interface; this makes the devices fully compatible with any higher layer Bluetooth stack

Target Applications:

- Medical devices, security systems, video distribution, PoS, Digital Signs, Industrial tablet PC's, Thin clients, handheld devices, set top box, and PCIe compliant devices.

Specifications:

Product Name	SX-PCEGN-BT
Chipset	Qualcomm Atheros AR9485 + AR3012
Host Interface	PCI Express mini card v1.2
Radio Specifications	IEEE 802.11 b/g/n + Bluetooth
Antenna Terminal	U.FL connector x 2
Operating Voltage	3.3V ± 9%
Current Consumption	Tx = 295mA typical. (WLAN) Standby =204mA typical. (WLAN)
Operating Temperature	Temperature: 0 - +60 °C
Storage Temperature	Temperature: -40 - +80 °C
Dimensions	26.65 x 29.85 x 3.37mm
Connector Type	PCI Express Half mini card edge

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