

SX-PCEAN2i / SX-PCEAN2c

802.11 a/b/g/n Mini PCIe Radio Module with Industrial Temperature Support



Next Generation 802.11 a/b/g/n Mini-PCI Express Wireless Module

The SX-PCEAN2 is the next generation dual-band 802.11 a/b/g/n PCIe module with industrial temperature support which is designed for devices that require wireless connectivity in a small form factor combined with high data throughput at extreme temperatures.

The SX-PCEAN2 is powered by Qualcomm Atheros radio chip and features 2x2 MIMO technology for higher throughput performance, reliability and range.

Embedded Applications:

The SX-PCEAN2 is designed to meet the demanding performance requirements of critical embedded applications.

Applications include Medical devices, Security Systems, Industrial, PoS, Digital Signs, Set-Top/ Net-Top Box, Embedded / Industrial / Tablet PC, Handheld devices, Thin Client devices, and many more.

Key Features:

- MIMO System**
 2x2 stream system and 40MHz channel width provides a strong and stable Wi-Fi connection.
- Data Rates**
 MIMO architecture allows link speeds up to 300Mbps.
- Industrial Temperature**
 Industrial grade module supports extended temperature range from -40°C to +85°C.
- Premium Quality**
 With in-house manufacturing capability, each card is individually tested and inspected to ensure the industry's highest quality resulting greater performance and reliability.
- Modes of Operation**
 SX-PCEAN2 supports access point, adhoc and client modes.

- Wi-Fi Protected Setup**
 WPS 2.0 implementation making it easy to add new devices to an existing network without entering long passphrases.
- Certifications**
 Modular certifications for FCC and TELEC.
- Driver Support**
 Linux driver with WEP, TKIP, AES encryption, IEEE 802.11e (QoS), IEEE 802.1X, and hidden SSID support.

Specifications:

Product Name	SX-PCEAN2c/ SX-PCEAN2i
Radio Chipset	AR9582 [commercial] / AR9592 [Industrial]
Radio Specifications	802.11a/b/g/n
Security	Open System, WEP, WPA, WPA2. 80.211x
Interface	PCI Express mini card edge
Operating Voltage	3.3 V
Humidity	20 ~ 80% RH
Operating Temperature	SX-PCEAN2c: 0°C to +60°C SX-PCEAN2i: -40°C to +85°C
Storage Temperature	-40°C to +85°C
Dimensions	29.85 × 26.80 x 3.45 mm
Weight	3.3 g

Silex Reference Driver

Supported CPU	Freescale i.MX 6
Supported OS Distribution	Ubuntu Kernel 3.0.35

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