silex technology

When it **Absolutely Must** Connect

SX-PCEAN2*i* / SX-PCEAN2*c*
802.11 a/b/g/n Mini PCIe Radio Module
with Industrial Temperature Support

Ideal for High Performance Applications based on the Freescale i.MX6 Platform

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 ideal for high performance applications based on the freescale i.MX6 platform. It is designed to meet the demanding performance requirements of critical embedded applications.

Applications include but not limited to medical devices, security systems, industrial, PoS, digital signs, set-top/ net-top box, embedded / industrial / tablet PC's, 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. Open source ath9k driver.

Specifications:

Product Name	SX-PCEAN2c/ SX-PCEAN2*i*
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
Current Consumption	2.4 GHz : Tx 580mA ; Rx 160mA 5.0 GHz : Tx 790mA ; Rx 160mA
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

- **Reference Driver**

Supported CPU	Freescale i.MX 6
Supported OS Distribution	Linux

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