![silex technology logo]

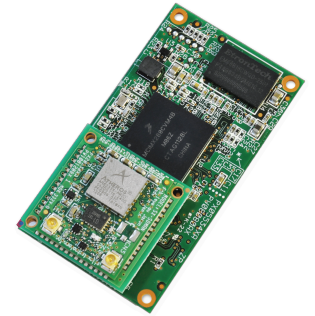When it **Absolutely Must** Connect

SX-570/SX-580
Enterprise 802.11n Connectivity for Battery Operated Devices

Serial/Ethernet to Wi-Fi Intelligent Modules

The SX-570/SX-580 high-performance Serial/Ethernet to Wi-Fi modules provide connectivity for low-power portable devices to 802.11 wireless local area networks (WLANS). Eliminating the need for the development of a wireless LAN driver and security supplicant, it is ideal for minimizing engineering investment and reducing time to market.

Measuring 1.18 x 2.16 inches (30 x 55 mm), the SX-570/SX-580 features a powerful 32-bit 454 MHz Freescale i.MX28 processor with an 802.11a/b/g/n radio, a complete TCP/IP network protocol stack, and an optimized AR6003 wireless radio driver and security supplicant in a self-contained hardware package. One major advantage of the SX-570/SX-580 is enterprise security, including WPA2 with 802.1x authentication, which enables it to be used on almost any customer's network without security compromises. Another key SX-570/SX-580 advantage is a full-featured Linux operating system that allows OEMs to easily offload requirements such as protocol conversion or data filtering using standard C programming. Another feature enhancement is the implementation of the WPS feature which allows clients to easily connect to any network with WPA2 security.

The SX-570/SX-580 is designed to connect to a wide range of OEM devices without the need for special software drivers or interface hardware. It includes a serial port that can run at speeds up to 3 Mbps and supports Ethernet bridging and AP mode.

Key Features:

- **Based on Qualcomm Atheros AR6003**
  This advanced chip technology enables the SX-570/SX-580 to provide breakthrough performance at the lowest cost.

- **Reduced Power Consumption**
  The SX-570/SX-580 minimizes power while transmitting and receiving data (approximately 300mA) while its power management features reduce power usage during periods of inactivity.

- **Industry-Leading Enterprise Security**
  The SX-570/SX-580 supports WEP, WPA and WPA2 including 802.1x Extensible Authentication Protocol (EAP) types.

- **Wi-Fi Protected Setup**
  WPS 2.0 implementation making it easy to add new devices to an existing network without entering long passphrases.

- **Linux Operating System with User Programmability**
  The SX-570/SX-580 uses the Linux operating system and is designed to allow users to easily add new features. With a 454 MHz processor and 64MB of RAM and 8MB of flash memory, the SX-570/SX-580 has plenty of capacity to handle complex user applications.

Specifications:

Product Name	SX-570-2700	SX-580-2700
CPU	Freescale i.MX280 ARM9/454 MHz	
Memory	8MB ROM/64MB RAM	
Radio Module	SX-SDMGN	SX-SDMAN
Radio Specifications	802.11b/g/n	802.11a/b/g/n
Operating System	Linux	
Security	WEP/WPA/WPA2 802.11x (LEAP, PEAP, TLS, TTLS, FAST)	
WPS 2.0	WPS - Push Button Configuration WPS- PIN Code Method	
Interfaces	UART/Ethernet (USB/I2C/GPIO/SPI)	
Operating Voltage	5V +/-5%	
Operating Temperature	-20 to +85 degrees C	-10 to +70 degrees C
Dimensions	55.0 x 30.0 x 9.25 mm* (W x H x D)	

* *Minimum height using lowest profile mating connector.*

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