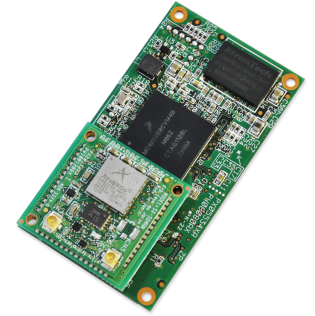


# SX-570/SX-580 Enterprise 802.11n Connectivity for Battery Operated Devices



## Serial/USB/Ethernet to Wi-Fi Modules

The SX-570/SX-580 high-performance Serial/USB/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 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.

### 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.
- AP Mode**  
 Enables the SX-570/SX-580 to operate as an access point with support up to 10 connectable slots.

### 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)	
WPS2	WPS - Push Button Configuration WPS - PIN Code Method	
Interfaces	UART/USB/Ethernet (USB/I2C/GPIO/SPI) <sup>1</sup>	
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 <sup>2</sup> (W x H x D)	

1 Web cameras and other isochronous devices may not be supported.  
 2 Minimum height using lowest profile mating connector.

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