

- Product Line
- ▶ Device server

▶ Print Server

▶ Linux box

▶ Multicast Distribution System

▶ Wireless digital signage player

▶ Network Display Adapter

▶ School digital AV broadcasting system

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▶ Interactive image transmission compatible access point

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▶ **silex Lite Connect**

▶ SX-ULPGN

▶ **SX-SDPAC**

▶ SX-PCEAD

▶ Identification

▶ Integrated management software

▶ Contract development / manufacturing (DMS / EMS)

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エンベデッドワイヤレス製品
総合カタログ 請求フォーム

NEW

Wireless・のおど

サイレックスの無線LAN開発者が
語る、製品開発秘話ブログ

テクニカルコンテンツ

MYページ

ご利用にはユーザ登録が必要です。

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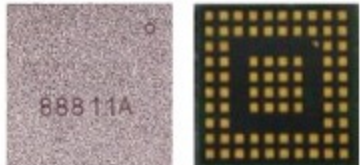
silex Lite Connect

SDIO type System-in-Package (SiP) module supporting IEEE 802.11ac & Bluetooth
Combo module supporting Wi-Fi and Bluetooth

Wireless LAN module / silex Lite Connect
SX-SDPAC

Besides IEEE 802.11a / b / g / n / ac, it also supports Bluetooth 4.1
High-speed communication with multi-user MIMO function

 [カタログPDF](#)  [印刷用ページ](#)



機能紹介

SX-SDPAC is a system-on-chip (SoC) equipped with Qualcomm Atheros' QCA 9377 System on chip (SoC), SDIO SiP (System-in-Package) module.

As the host interface, SDIO 3.0 interface for wireless LAN and high-speed UART interface for Bluetooth are respectively installed.

Since this product incorporates an RF front end, it can reduce the development burden on RF peripheral circuits and can control both 5 GHz and 2.4 GHz bands with a single external antenna. Moreover, because it is compact size 6.9 mm x 6.9 mm, it contributes to miniaturization of customer's board.

Characteristic

- Dual band Wi-Fi & Bluetooth 4.1 compatible
- Low power consumption 1 × 1 SiP module
- Adopted Qualcomm Atheros QCA 9377-3 SoC
- PHY data rate maximum 433 Mbps (11ac VHT80 o'clock)
- Wireless LAN host interface compatible with SDIO 3.0?
- Supports UART as a Bluetooth host interface
- Main power supply: 3.3 V, IO power supply: 1.8 V or 3.3 V
- RoHS Compliant (2011/65 / EC)
- Small size 6.9 x 6.9 x 1.1 mm
- 80-pin LGA package

Product lineup

Model number	type	Packing unit	packing
SX-SDPAC-2830	Mass production SKU	3,000 formula	reel
SX-SDPAC-2830-SP	Sample pack	10 Equation	reel
SX-SDPAC-EVK	Evaluation kit	1 set	Individual boxes

Wireless driver

- Reference platform: NXP i.MX 6 SoloX
- Supported OS: Linux
- Corresponding function
 - Operating mode: Access Point (number of connectable units: 8)
 - Authentication method: Open System, WPA 2 - PSK
 - Encryption method: None, AES
 - WPS v2.0 (PBC, PIN code, external registrar supported)
 - WDS

Evaluation kit

In order to evaluate the wireless function of SX - SDPAC, we have prepared an evaluation kit (SX - SDPAC - EVK) and an evaluation environment construction guide. In this evaluation kit, it operates under the SDIO 2.0 standard.



SX-SDPAC-EVK



NXP社製 i.MX6 SoloX【別売】

SX-SDPAC-EVK Included Items

- Evaluation board (SX - SDPAC - EVK)
- antenna
- Evaluation environment construction guide

Recommended evaluation environment

- Evaluation Board: i.MX6 SoloX made by NXP
- OS: Linux
- driver:

Possible tests

- Wireless LAN communication speed, distance
- Wireless LAN parameter adjustment
 - Channel setting
 - AP / STA mode switching
 - Confirmation of various authentication / encryption methods

Connection image

procedure

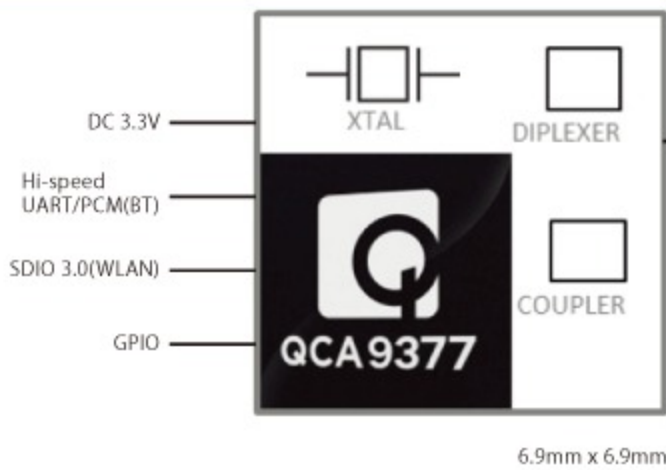
You can evaluate this product by the following procedure.

- ① 「SX-SDPAC-EVK」をご購入
- ② お客様で評価に必要な機材をご用意
- ③ お客様でLinux OS、オープンソースドライバを入手
- ④ 評価用環境の構築
- ⑤ 評価開始

製品スペック

Model number	SX-SDPAC
Chipset	Qualcomm Atheros QCA 9377
Host interface	Wireless LAN: SDIO Bluetooth: Hi-speed UART
Wireless LAN standard	IEEE 802.11 ac / a / b / g / n
Bluetooth standard	Bluetooth 4.1 BR / EDR / HS / LE
Operating voltage	Main power supply: 3.3 V ± 5% IO power supply: SDIO 2.0 operation 3.3 V ± 5% SDIO 3.0 operation 1.8 V ± 5%
Power consumption (wireless LAN)	[2.4 GHz] transmission - Typ. 305 mA ~ 340 mA reception - Typ. 85 mA [5 GHz] transmission - Typ. 410 mA ~ 490 mA reception - Typ. 115 mA
Power consumption (Bluetooth)	Transmission - Typ. 90 mA reception - Typ. 45 mA
External dimensions	6.9 mm x 6.9 mm x 1.08 mm
Storage environment condition	Storage temperature: -40 to + 85 ° C Storage humidity: 10 to 85% RH

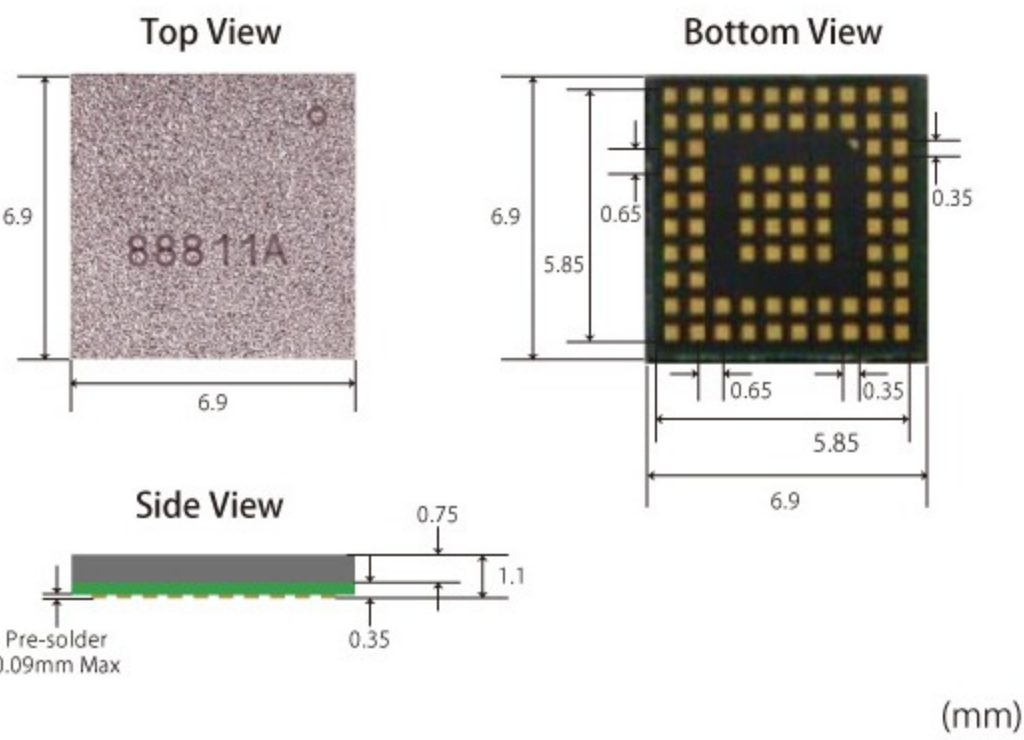
Diagram



6.9mm x 6.9mm

Dimensional drawing

本体



(mm)

EVK



各種製品やサービスのお問い合わせは、
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製品一覧

Device Connectivity
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Print Server
Linux box
Embedded software

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Multicast Distribution System
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CAN bridge
Wireless bridge

Wireless Infra

access point
Interactive image transmission compatible access point
Wireless LAN survey
Integrated management software

Embedded Wireless

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Intelligent Modules
Development kit / Evaluation kit
Others
Identification

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