
User's Manual

Product: SDIO Wireless Module

Manufacturer: Silex Technology, Inc.

Model: SX-SDPAC

For Original Equipment Manufacturer integration only – this device cannot be sold to the general public

FCC ID: N6C-SDPAC

IC: 4908A-SDPAC

The OEM must include the following notices as required by FCC/IC on the product and in the User's Manual.

1 Notifications

FCC ID : N6C-SDPAC
IC ID : 4908A-SDPAC

NOTICE

Federal Communication Interference Statement (United States only)

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Canadian Department of Communications Industry Canada Notice (Canada only)

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC Rules, Part 15 / Industry Canada

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of this device.

Le présent appareil est conforme aux la partie 15 des règles de la FCC et CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from a person's body.

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles des radioélectriques (RF) de la FCC lignes directrices d'exposition dans le Supplément C à OET65 et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le radiateur et le corps humain.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

For product available in the USA/Canada market, only channels 1-11 can be operated. Selection of other channels is not possible.

If this device is to be operated in the 5.15~5.25GHz frequency range, it is restricted to indoor environments only.

Antenna: Proprietary

Antenna gain information: Embedded Antenna: 3.25dBi (2.4 GHz), 5.0dBi (5 GHz)

Frequency Tolerance : +/-20ppm

WARNING :

The FCC / The Industry Canada regulations provide that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Manual and Product Labeling information For The OEM

The end user manual shall include all required regulatory information/warning as show in this manual. And when this

module is installed in the host product, it will include "Contains FCC ID: N6C-SDPAC" and "Contains IC: 4908A-SDPAC" on the label of the host product.

General Specifications

Chipset:	QCA9377-3, (Qualcomm Atheros)	
Host Interface:	Wifi: SDIO v3.0;	BT: High Speed UART
Operating Voltage:	3.30 VDC +/- 5%	
Operating Temperature:	-20 to +70 degrees C	
Dimensions:	18.0 x 13.0 x 2.2 mm (L x W x D)	
Connector Type:	52-pin proprietary	
Radio Specifications:	802.11b/g/n: 2.412 - 2.484 GHz; 802.11a/n: 5.18 - 5.825 GHz BT: 2.402 – 2.480 GHz	
Link Rates (1 stream):	IEEE 802.11b:	1-11 Mbps
	IEEE 802.11g:	6-54 Mbps
	IEEE 802.11a:	6-54 Mbps
	IEEE 802.11n HT20:	6.5-65.0 Mbps
	IEEE 802.11n HT40:	13.5-135.0 Mbps
	IEEE 802.11ac VHT20:	6.5-78.0 Mbps
	IEEE 802.11ac VHT40:	13.5-180.0 Mbps
	IEEE 802.11ac VHT80:	29.3-390.0 Mbps
Modulation Modes:	OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK), DSSS (CCK, DQPSK, DBPSK), GFSK (1Mbps), $\pi/4$ DQPSK (2Mbps), 8DQPSK (3Mbps)	
Hardware Encryption:	WEP, WPA/WPA2 (TKIP/AES-CCMP), WAPI	
Quality of Service (QoS):	WMM, WMM-PS, 802.11e	