Silex Technology USBAC Embedded Wireless Module User Manual

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Since this module is not sold to general end users directly, there is no user manual of module.
For the details about this module, please refer to the specification sheet of module.
This module should be installed in the host device according to the interface specification (installation procedure).

Contents

FCC Notice

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

List of applicable FCC rules

This device complies with below part 15 of the FCC Rules.
Part 15 Subpart C
Part 15 Subpart E

Test Modes

silex technology, Inc. uses various test mode programs for test set up which operate separate from production firmware. Host integrators should contact silex technology, Inc. for assistance with test modes needed for module/host compliance test requirements.

Additional testing, Part 15 Subpart B disclaimer

The modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant, and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.
The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

Summarize the specific operational use conditions

This module designed for mounting inside of the end product by end product manufacturer professionally. Therefore, it complies with the antenna and transmission system requirements of §15.203.

Compliance with FCC requirement 15.407(c)

Data transmission is always initiated by software, which is the passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinue transmission in case of either absence of information to transmit or operational failure.

RF exposure considerations

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person’s body.

Co-Location Rule

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Label and compliance information

Following information must be indicated on the host device of this module.

Contains Transmitter Module FCC ID N6C-USBAC
Or

Contains FCC ID N6C-USBAC

FCC CAUTION

The following statements must be described on the user manual of the host device of this module;

FCC CAUTION
Changes or modifications not expressly approved by the party responsible for compliance could void the userb's authority to operate the equipment.

Antennas

Recommended Antenna List

Antennas	Vendors	Antenna Type	2.4GHz Gain		5GHz Gain	
			peak	Min	peak	Min.
SXANTFDB24A55-02	Silex	Patern	+2.0dBi	0dBi	+3.0dBi	0dBi

WLAN Channel 12 & 13

Product hardware has the capability to operate on channel 12 & 13. However, these 2 channels will be disabled via software and user will not able to enable these 2 channels.

ISED Notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Label and compliance information

The following information must be indicated on the host device of this module.

Contains Transmitter Module IC: 4908A-USBAC
or
Contains IC: 4908A-USBAC

Operation in the band 5150-5350 MHz

Operation in the band 5150-5350 MHz is only for indoor use to reduce the potential for harmful interference to cochannel mobile satellite systems.

Data transmission

Data transmission is always initiated by software, which is the passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinue transmission in case of either absence of information to transmit or operational failure.

RF exposure considerations

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

Documents / Resources

	Silex Technology USBAC Embedded Wireless Module [pdf] User Manual USBAC, N6C-USBAC, N6CUSBAC, USBAC Embedded Wireless Module, Embedded Wireless Module