LANTRONIX Open-Q 4200 SIP Wi-Fi BT OEM Integrator

LANTRONIX Open-Q 4200 SIP Wi-Fi BT OEM Integrator User Guide

Contents

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LANTRONIX Open-Q 4200 SIP Wi-Fi BT OEM Integrator

Product Information

The Open-Q 4200 SIP Wi-Fi BT Certification OEM Integrator Guide provides technical data and instructions for designing and manufacturing a system utilizing the Open-Q 4200 SIP Transmitter Module. It ensures compliance with FCC and IC certifications for use in the U.S. and Canada.

Specifications

- **Product Name:** Open-QTM 4200 SIP Wi-Fi BT Certification OEM Integrator Guide
- **Part Number:** PMD-00171
- **Revision:** A Sept 2023
- **Trademark:** Lantronix, Inc. and Intrinsyc Technologies Corporation

Usage Instructions

Purpose

The purpose of this document is to guide OEM integrators in designing and manufacturing systems using the Open-Q 4200 SIP Transmitter Module.

Certification Compliance

It is crucial for OEM integrators to follow the instructions in this document to maintain FCC and IC certifications for the Module's use in the U.S. and Canada. System-level EMI/EMC and Product Safety testing and certifications for the host system are the responsibility of the OEM integrator.

Steps for Integration

1. Refer to the relevant hardware datasheet for detailed information on the Open-Q 4200 family of SIPs.
2. Design and manufacture the system following the guidelines provided in this document.
3. Ensure compliance with radio conformance regulations for the Module.
4. Conduct system-level EMI/EMC and Product Safety testing and certifications for the host system.

FAQ

Q: What should I do if I encounter issues during system integration?
A: If you encounter any issues during system integration, please contact Lantronix Technical Support at Toll-Free: 800-526-8766 or visit https://www.lantronix.com/support for assistance.

Contacts

Lantronix, Inc.

- 48 Discovery, Suite 250 Irvine, CA 92618 USA
- **Toll-Free:** 800-526-8766
- **Phone:** 949-453-3990
- **Fax:** 949-453-3995
- **Lantronix Technical Support** https://www.lantronix.com/support.

Sales Offices
For a current list of our domestic and international sales offices, go to the Lantronix website at https://www.lantronix.com/about-us/contact/.

Revision History

Date	Rev.	Comments
September 2023	A	Initial release.

For the latest revision of this product document, please go to: https://tech.intrinsyc.com.

Note:
The Lantronix Open-Q 4200 SIP radio module (the "Module") is certified for compliance for use in the USA and Canada only. For use in other countries, certificates of compliance must be obtained for that country or region before the module can be sold, operated, or incorporated into products. In addition, any deviation from the settings, methods, conditions, and restrictions for integration of the Module into a host system, as defined in this document, could be a violation of applicable national law and may be punishable as such, and in such event, the products into which the Module is incorporated may not be lawfully distributed or sold in such countries. Lantronix

assumes no responsibility for any such liability or loss related to the installation or operation of the Module.

Introduction

Throughout this document, “SIP” or “4200 SIP” refers to any of the Open-Q 4200 family of SIPs. For detailed information about the Open-Q 4200 family of SIPs, see the relevant hardware datasheet for your SIP.

Purpose

- This document describes the steps that the OEM integrator must follow when designing and manufacturing a system utilizing the Open-Q 4200 SIP Transmitter Module.
- Failing to follow the instructions in this document may invalidate the FCC and IC (Industry Canada) certifications and authorizations of the Module for use in the U.S. and Canada.
- The Module certifications described in this document apply only to radio conformance for the Module. The OEM integrator is responsible for all system-level EMI/EMC and Product Safety testing and certifications that apply to the host system in the U.S. and other countries where the system will be marketed or sold.

Applicable Module

Model	USA/FCC	CANADA/IC
Open-Q 4200 SIP	R68OQ4200S	3867A-OQ4200S

Additional Regulatory Conformance Testing and/or Submissions Required by the Integrator

- The modular certifications apply to the radio conformance for the Module only. The OEM integrator is responsible for additional system-level EMI/EMC and Product Safety testing and certification that applies in the U.S. and other countries to the host system containing the Module. This includes but is not limited to Federal Communications Commission (“FCC”) Part 15 Class B Digital Emissions. These system-level EMC tests are to be done with the Module installed and included in the scope of the submission.
- Some of the countries for which modular certifications are provided require additional submissions, authorizations, or import permission by the system vendor or importer. The integrator is responsible for these additional actions.
- Modular radio certification is not possible in some countries. For such countries, OEM integrators must ensure radio certification for the end system is obtained, before placing the product on the market.

Compliant/Allowable TX Power Settings
Any adjustments made to increase transmit power settings will invalidate all radio certifications for this module.

Allowable Antennas to be used with the Radio Module

The module is certified for use with certain antennas as described in this section.

Allowed Antenna Types:

1. Dipole antenna

Table 1. Allowed Maximum Gain (dBi) Dipole, Including Cable Loss

2.4~2.5 GHz	3.32
4.9~5.8 GHz	6.11

- **Notes 1:** The required antenna impedance is 50 ohms. Please see the figures below and the manufacturer antenna design guidelines for details on RF trace routing. Any deviation(s) from the defined parameters of the antenna trace, as described by the instructions below, requires that the host product manufacturer must notify the module grantee that they wish to change the antenna trace design.
- **Notes 2:** Use of other antenna types or the same type of antenna but with higher gain than listed above is not allowed without additional testing and appropriate FCC or IC approval.

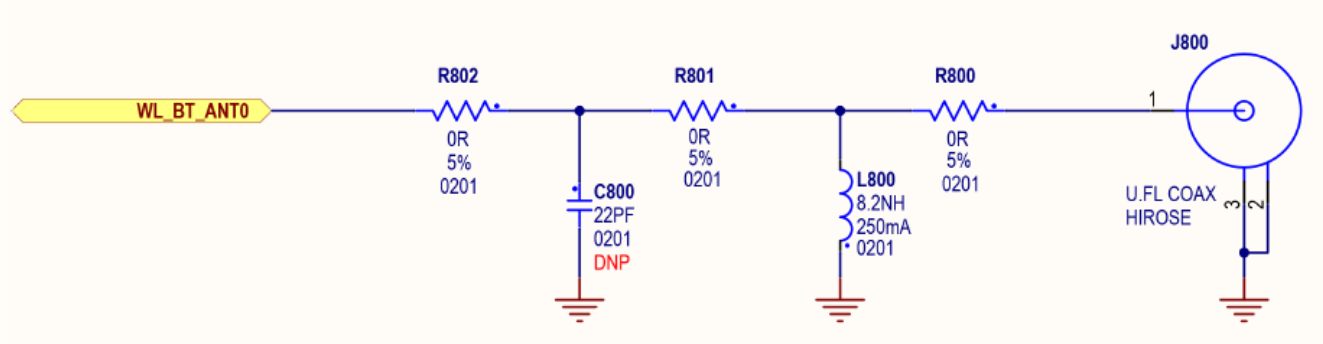


Figure 1: Antenna schematic design guideline

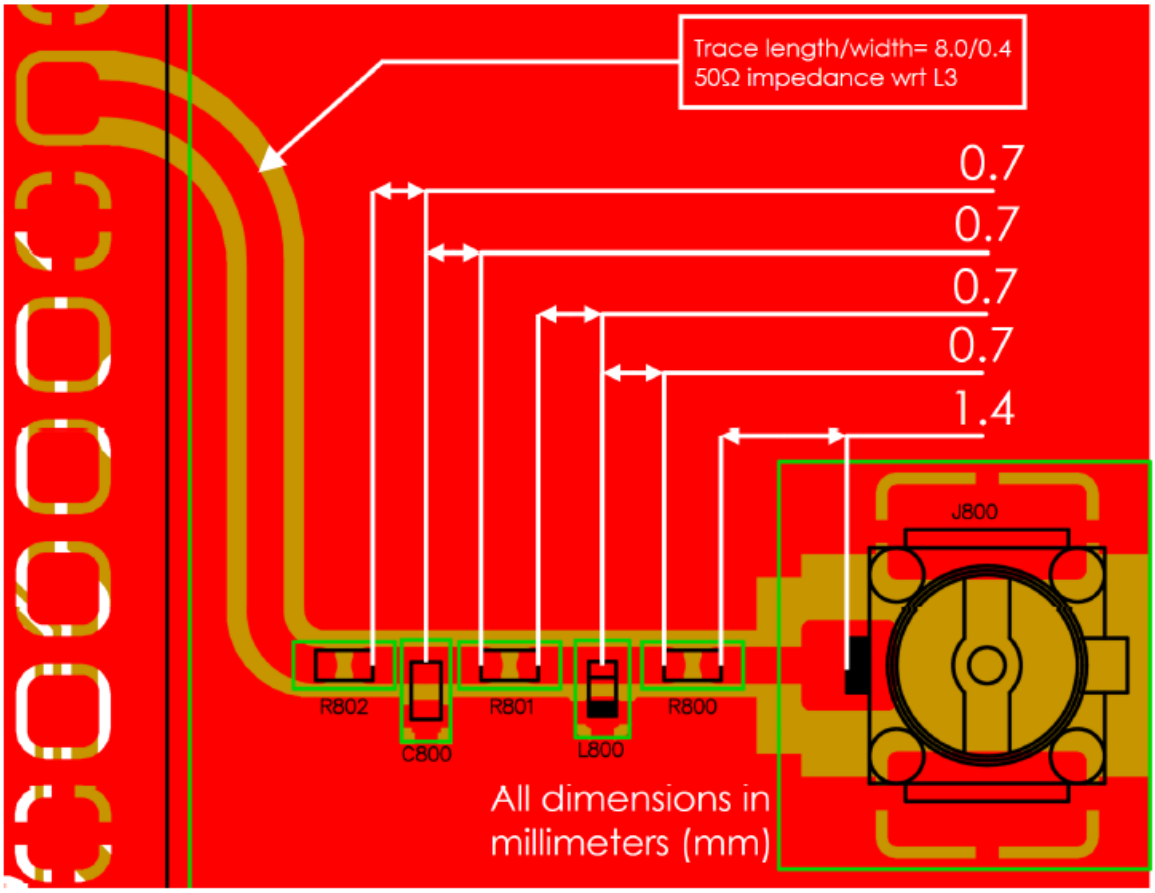


Figure 2. PCB Design Guideline

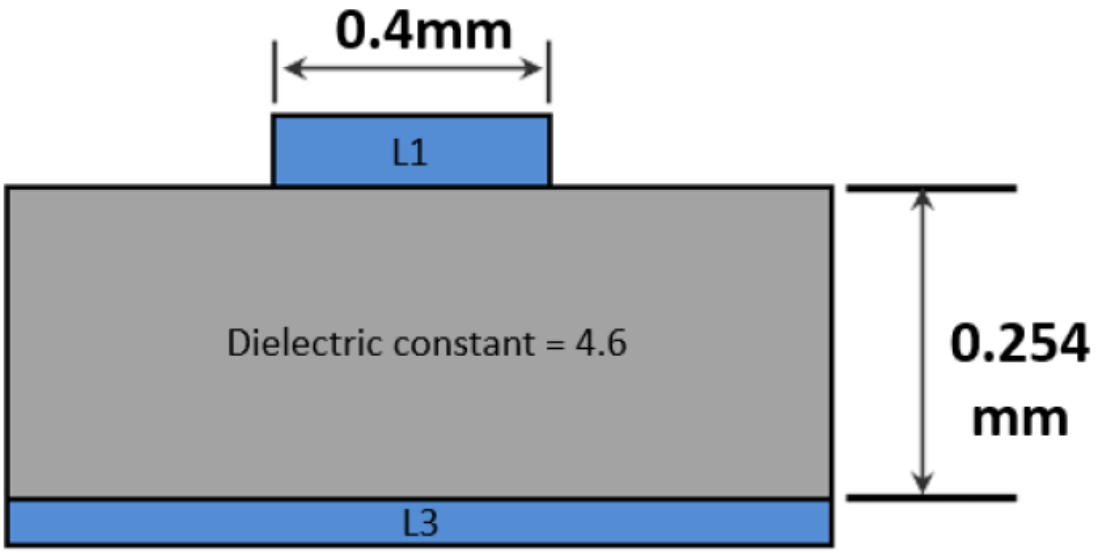


Figure 3: PCB Stack up Guideline

Antenna Placement and RF Safety

The FCC and other countries' regulatory bodies impose strict conditions and limitations on the RF exposure levels of end products. Acceptable RF exposure levels for this Module depend on transmit power, the location of the transmitting antenna(s) inside the host system and the expected separation of the transmitting antennas to the end user. OEM integrators must take great care to ensure each host system complies with the applicable RF exposure requirements. The antenna-to-user (bystander) separation distance must be a minimum of 20 cm for FCC and a minimum of 20 cm for ISED.

Failure to adhere to these separation/spacing rules will invalidate the FCC and IC certifications for the Module.

- This separation is measured between the closest point of each transmitting antenna inside the host device to the point of contact by the user or nearby person outside the host device.
- The transmitting antenna cables shall be positioned away from the antenna elements to conform to the configuration tested for compliance.
- When transmitting antennas are installed in the display section of a device, the display section shall not have metallic components and materials that can influence or change the operating and RF exposure characteristics of the antennas.
- The separation between the main and aux antennas must be at least 3 cm.
- The transmitter module may not be co-located with any other transmitter or antenna.
- SAR evaluation is required if a separation distance of less than or equal to 20 cm between the user or bystanders and the device antenna cannot always be maintained. For ISED, bystander SAR evaluation is always required for antenna installation in laptop screens per RSS-102 (SPR)-001.

Where one or more of the conditions above cannot be met for a particular host system, additional testing is required to secure the necessary certifications for the system.

Note:
These restrictions do not apply to receive-only antennae.

Simultaneous Transmission with other Integrated or Plug-in Radios

The FCC and IC impose conditions and limitations when additional radio(s) are co-located in the same host system as the Module with the capability to transmit simultaneously. Co-locating other radios such as an integrated or plug-in Wireless WAN/cellular radio with the Module requires additional evaluation and possibly submission for authorization from the FCC and IC. Because the rules are highly dependent on the characteristics of the particular radios that are co-located and simultaneously transmitting, the OEM integrator should seek guidance from a knowledgeable test lab or consultant to determine if additional testing and certification are required. In this case, failure to evaluate and follow the required FCC and IC procedures will invalidate the FCC and IC certifications of the Module and end system.

Module May Not Be Installed by End Users

- FCC and IC rules require this Module to be installed in host systems at the factory by the OEM integrator. Thus, end users of the system may not install the Module. Therefore, the host product user instructions must not advise the end user on how to access or remove the Module. Additional FCC authorization/filing is needed to allow end-user installation of the radio modules.
- If modules are provided to the end users for installation in the host, a two-way authentication protocol is required to limit the module to operating only with the authorized host system.

Required Labeling on the Outside of the Host

FCC Labeling Requirements on the Outside of the Host
The FCC requires a label on the outside of the host system visible to the end user.

Example wording is:

Contains:

- **FCC ID:** R68OQ4200S
- **IC:** 3867A-OQ4200S

The FCC requires a logo signifying emission compliance on the outside of the host system. The OEM integrator is responsible for performing FCC Part 15 Class B digital emissions testing on the end system with the radio Module installed. The FCC logo below should not be affixed unless the OEM integrator has obtained the necessary Part 15 approval, e.g., self-declaration of conformity. If the host system is approved to FCC Class B digital emissions limits under a grant of certification issued by a TCB, the FCC ID number shown on the grant should be used on the label instead of the FCC logo shown in Figure 5 below.

Figure 4. FCC Logo

Also, see **https://www.fcc.gov/logos**.

A certified module has the option to use a permanently affixed label, or an electronic label (Refer to FCC KDB 784748 D02 for e-labeling guidance). All modules without an integrated display on the module must be labeled with a module's FCC ID – Section 2.926.

Industry Canada Labeling Requirements on the Outside of the Host

End Product Labeling
The end product must be labeled in a visible area with the following for the Open-Q 4200 SIP:

- **Contains IC:** 3867A-OQ4200S.

Required Labeling on the Module

FCC and Industry Canada Labeling on the Module
The OEM integrator must ensure that the FCC ID and IC number are affixed on the Module or in a User/Installation Manual along with other country certification numbers and logos as described herein.

Note:
The original Module manufacturer may affix regulatory labeling at the time of Module manufacturing. However, the OEM integrator must ensure that Module labeling is complete, correct, and applicable for all the countries to which the host system is to be imported, marketed, or sold.

Required Regulatory Wording for End User Manual/Installation Manual

The OEM integrator must provide instructions in the end user manual on how to retrieve the module FCC ID for host devices using electronic labeling (for example an integrated display) instead of a physical label or nameplate to meet the labeling requirements of Industry Canada (Refer to FCC KDB 784748 D02 e labeling document for guidance). The OEM integrator must include text in the end user manual meeting the regulators' requirements. When the module is installed inside another device, the user manual of that device must contain the statements and warnings below.

FCC Requirements for End User Manual/Installation Manual

FEDERAL COMMUNICATIONS INTERFERENCE STATEMENT
This device complies with Part 15 of the 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.

This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 by 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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.

FCC Caution:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator & your body.

This module is intended for OEM integrators only. Per FCC KDB 996369 D03 OEM Manual v01 guidance, the following conditions must be strictly followed when using this certified module:

KDB 996369 D03 OEM Manual v01 rule sections:

List of applicable FCC rules
This module has been tested for compliance with FCC Part 15.247 and 15.407.

Summarize the specific operational use conditions
The module is tested for standalone mobile RF exposure use conditions. Any other usage conditions such as co-location with other transmitter(s) or being used in a portable condition will need a separate reassessment through a class II permissive change application or new certification.

Limited module procedures
Not applicable.

Trace antenna designs
See section 5 of this document.

RF exposure considerations
This equipment complies with FCC mobile radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator & your body. If the module is installed in a portable host, a separate SAR evaluation is required to confirm compliance with relevant FCC portable RF exposure rules.

Antennas
The following antennas have been certified for use with this module; antennas of the same type with equal or lower gain may also be used with this module. The antenna must be installed such that 20 cm can be maintained between the antenna and users.

Antenna Type:	Dipole Antenna
Antenna connector:	U.FL

Label and compliance information
The final end product must be labeled in a visible area with the following: “Contains FCC ID: R68OQ4200S”. The grantee’s FCC ID can be used only when all FCC compliance requirements are met.

Information on test modes and additional testing requirements
This transmitter is tested in a standalone mobile RF exposure condition and any co-located or simultaneous transmission with other transmitter(s) or portable use will require a separate class II permissive change re-evaluation or new certification.

Additional testing, Part 15 Subpart B disclaimer

- This transmitter module is tested as a subsystem and its certification does not cover the FCC Part 15 Subpart B (unintentional radiator) rule requirement applicable to the final host. The final host will still need to be reassessed for compliance with this portion of rule requirements if applicable.
- As long as all conditions above are met, further transmitter tests will not be required. However, the OEM integrator is still responsible for testing their end product for any additional compliance requirements required with this module installed.

IMPORTANT NOTE:
If these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid, and the FCC ID cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

Manual Information to the End User

- The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product that integrates this module.
- The end user manual shall include all required regulatory information/warnings as shown in this manual.

OEM/Host manufacturer responsibilities
OEM/Host manufacturers are ultimately responsible for the compliance of the Host and Module. The final product must be reassessed against all the essential requirements of the FCC rule such as FCC Part 15 Subpart B before it can be placed on the US market. This includes reassessing the transmitter module for compliance with the Radio and EMF essential requirements of the FCC rules. This module must not be incorporated into any other device or system without retesting for compliance as multi-radio and combined equipment.

Industry Canada Requirements for End User Manual/Installation Manual

INDUSTRY CANADA STATEMENTS
This device complies with ISED's license-exempt RSSs. 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.

Radiation Exposure Statement:
This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator & your body.

This device is intended only for OEM integrators under the following conditions: (For module device use)

1. The antenna must be installed and operated with a minimum distance of 20 cm between the antenna and users, and
2. The transmitter module may not be co-located with any other transmitter or antenna.

As long as the 2 conditions above are met, further transmitter tests will not be required. However, the OEM integrator is still responsible for testing their end product for any additional compliance requirements required with this module installed.

IMPORTANT NOTE:
If these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the Canada authorization is no longer considered valid and the IC ID cannot be used on the final

product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate Canada authorization.

End Product Labeling
This transmitter module is authorized only for use in devices where the antenna may be installed and operated with a minimum distance of 20 cm between the antenna and users. The end product must be labeled in a visible area with the following: “Contains IC: 3867A-OQ4200S”.

Manual Information to the End User

- The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user’s manual of the end product that integrates this module.
- The end user manual shall include all required regulatory information/warnings as shown in this manual.

Caution:

1. The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
2. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
3. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate;
4. Where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement outlined in section 6.2.2.3 shall be indicated.

CE Requirements for End User Manual/Installation Manual
This device complies with Directive 2014/53/EU issued by the Commission of the European Community. A minimum separation distance of 20cm must be maintained between the user’s body and the device, including the antenna during body-worn operation to comply with the RF exposure requirements in Europe.

Frequency bands

- 2.4 GHz Wi-Fi Frequencies 11b/g/n/ac 20MHz: 2412 – 2472 MHz, 13 Channels
- 2.4 GHz Wi-Fi Frequencies 11n/ac 40MHz: 2422 – 2462 MHz, 9 Channels
- BT/BTLE (2402 ~ 2480 MHz) Number of BT Channels: 79 BTFHSS (CH0-78), 40 CH BTLE

5180-5240 MHz Wi-Fi

- 5 GHz (11a, 11n, 11ac) 20MHz: 5180-5240MHz, 4 Channels (36, 40, 44 and 48)
- 5 GHz (11n, 11ac) 40MHz: 5180-5240MHz, 2 Channels (38 and 46)
- 5 GHz (11ac) 80MHz: 1 Channels (CH 42)

5260-5320 MHz Wi-Fi

- 5 GHz (11a, 11n, 11ac) 20MHz: 5260-5320MHz, 4 Channels (52, 56, 60 and 64)
- 5 GHz (11n, 11ac) 40MHz: 5260-5320MHz, 2 Channels (54 and 52)
- 5 GHz (11ac) 80MHz: 1 Channels (CH 58)

5500-5700 MHz Wi-Fi

- 5 GHz (11a, 11n, 11ac) 20 MHz, 11 Channels (100, 104, 108,112, 116, 120, 124, 128, 132, 136 and 140).
- 5 GHz (11n, 11ac) 40MHz, 5 Channels (102, 110, 118, 126 and 134)
- 5 GHz (11ac) 80MHz, 2 Channels (106 and 122)

Powers

Transmit Mode	Maximum Average EIRP (dBm)
CDD	
2.4 GHz	
802.11b	18.43 dbm
802.11g	19.98 dbm
802.11n (HT20)	19.94 dbm
802.11n (HT40)	19.48 dbm
802.11n (VHT20)	19.97 dbm
802.11n (VHT40)	19.64 dbm
5 GHz	
802.11a	21.39 dbm
802.11n (HT20)	21.36 dbm
802.11n (HT40)	21.21 dbm
802.11ac (VHT20)	21.38 dbm
802.11ac (VHT40)	21.33 dbm
802.11ac (VHT80)	16.39 dbm

Bluetooth		8.3 dbm
Bluetooth LE		9.7 dbm

Operating temperature

Parameter	Min	Typ	Max	Units
Overall, SIP (case temperature)	-25	+25	85	°C

WLAN 5 GHz
Operations in the 5.18-5.24 GHz and 5260-5320 GHz frequencies are restricted to indoor usage in all member states.

AT	BE	BG	CH	CY	CZ
DE	DK	EE	EL	ES	FI
FR	HR	HU	IE	IS	IT
LI	LT	LU	LV	MT	NL
NO	PL	PT	RO	SE	SI
SK	TR				

Integrator

Important Note:

- SIPs are configured from the factory for FCC compliance, so are not CE-compliant. To ensure CE compliance, please contact Lantronix Technical Support for the files and instructions on how to reconfigure devices destined for sale in Europe.
- In all cases, the assessment of the final product must comply with the Essential requirements of Directive 2014/53/EU Articles 3.1(a) and (b), safety and EMC respectively, as well as any relevant Article 3.2 requirements.

Antenna Gain (WLAN & BT):

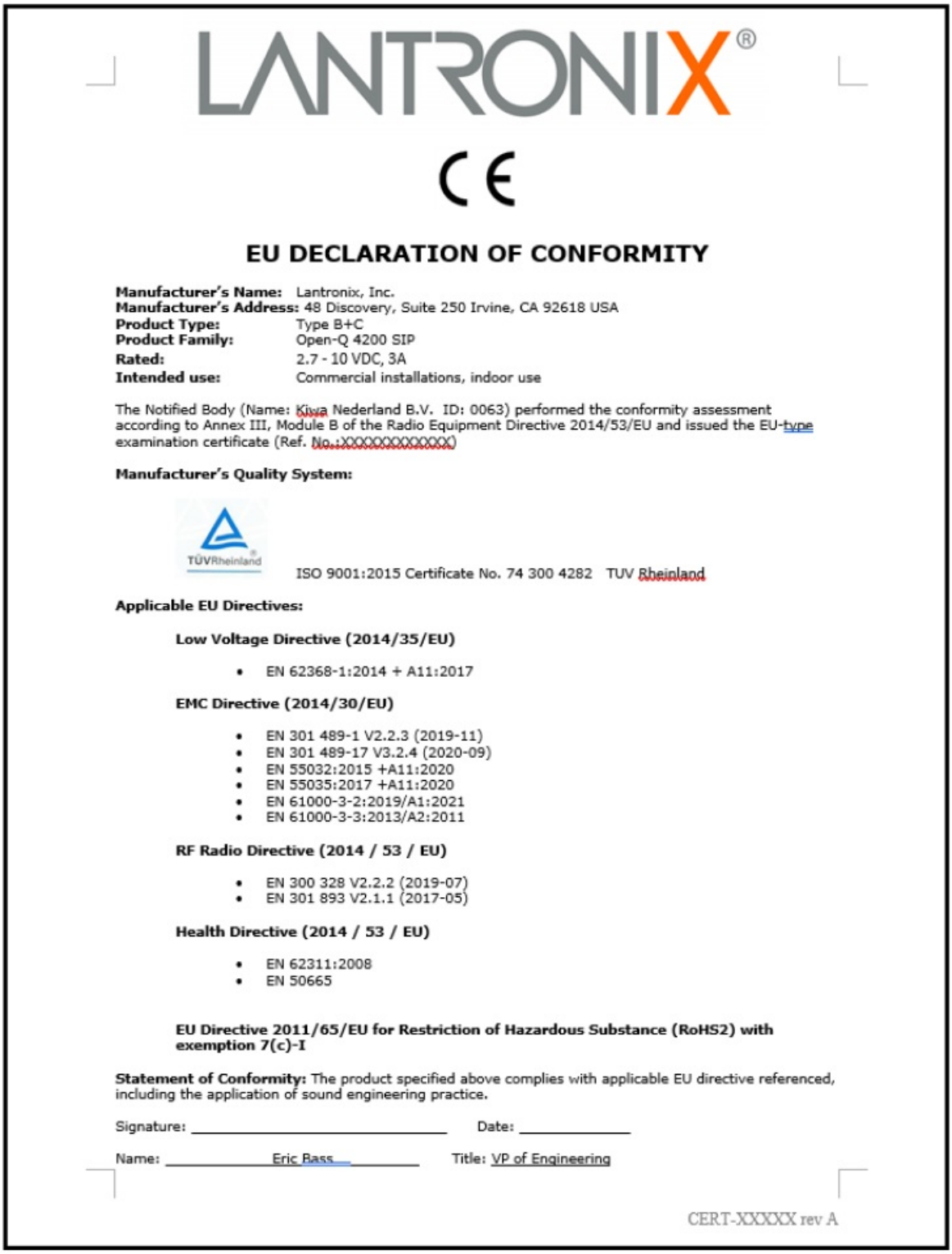
Parameter	**Specification**
Manufacturer	Taoglas
Part Number	FXP.830.07.0100C
Peak Gain (on plastic*)	2.4GHz: 3.32dBi, 5.8GHz: 6.11dBi
Average Gain (on plastic*)	2.4GHz: -3.0dBi, 5.8GHz: -0.7dBi
Impedance	50 ohms
Type	Flexible Dipole Antenna
Polarization	Linear
VSWR (free space)	<4.5:1, 2400 – 2480, <2.25:1, 4900 – 5800
Frequency	2.4 ~ 2.5GHz, 4.9 ~ 5.8GHz
Size	42mm x 7mm x 0.1mm
Antenna Color	Black with green logo and text

Antenna Body Material	Polymer
Adhesive	3M double-sided tape
Connector Height	U. FL: 2.5mm Max.
Cable	Gray 100mm 1.37 co-axial
Operating Temp	-40 to +85 C

EU Declaration of Conformity

Europe – EU Declaration of Conformity (Open-Q 4200 SIP)
Hereby, Lantronix, declares that this Open-Q 4200 SIP complies with the essential requirements and other relevant provisions of Directive 1999/5/EC.

CE Declaration of Conformity



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CE

EU DECLARATION OF CONFORMITY

Manufacturer's Name: Lantronix, Inc.
Manufacturer's Address: 48 Discovery, Suite 250 Irvine, CA 92618 USA
Product Type: Type B+C
Product Family: Open-Q 4200 SIP
Rated: 2.7 - 10 VDC, 3A
Intended use: Commercial installations, indoor use

The Notified Body (Name: Kiwa Nederland B.V. ID: 0063) performed the conformity assessment according to Annex III, Module B of the Radio Equipment Directive 2014/53/EU and issued the EU-type examination certificate (Ref. No.:XXXXXXXXXXX)

Manufacturer's Quality System:

TÜVRheinland

ISO 9001:2015 Certificate No. 74 300 4282 TUV Rheinland

Applicable EU Directives:

Low Voltage Directive (2014/35/EU)

- EN 62368-1:2014 + A11:2017

EMC Directive (2014/30/EU)

- EN 301 489-1 V2.2.3 (2019-11)
- EN 301 489-17 V3.2.4 (2020-09)
- EN 55032:2015 +A11:2020
- EN 55035:2017 +A11:2020
- EN 61000-3-2:2019/A1:2021
- EN 61000-3-3:2013/A2:2011

RF Radio Directive (2014 / 53 / EU)

- EN 300 328 V2.2.2 (2019-07)
- EN 301 893 V2.1.1 (2017-05)

Health Directive (2014 / 53 / EU)

- EN 62311:2008
- EN 50665

EU Directive 2011/65/EU for Restriction of Hazardous Substance (RoHS2) with exemption 7(c)-I

Statement of Conformity: The product specified above complies with applicable EU directive referenced, including the application of sound engineering practice.

Signature: _____ Date: _____

Name: Eric Bass Title: VP of Engineering

CERT-XXXXX rev A

OEM Integrator Checklist

The OEM Integrator will integrate the Module into the host systems by the instructions specified in this document and the documents referenced herein.

- The OEM Integrator will ensure the Module is integrated into a host system using only antennas that are of the same type and have equal or less antenna gain as described in this document.
- The OEM Integrator will ensure the antenna placement inside the host system will maintain the required spacing to the end user for RF Exposure compliance, as specified in this document.
- If other radios are integrated inside the host with the Module, the OEM Integrator will contact a test lab or TCB to determine if additional FCC compliance evaluation is required to meet FCC collocation rules.

- The OEM Integrator will ensure end-user documentation will contain the specified regulatory wording and ensure the host system and the Module itself are labeled as specified in this document.
- The OEM Integrator will ensure that nothing is done that will change the transmit power level of the module.
- The OEM Integrator will ensure end-user documentation will contain clear instructions on how to access the FCC ID and IC Number of the module should an electronic display (e-labeling) be used to meet the FCC and IC labeling requirements (Refer to FCC KDB 784748 D02 e labeling document and IC Notice 2014-DRS1003 for guidance).
- The OEM Integrator will ensure end-user documentation will contain clear instructions on how to access the FCC ID and IC Number of the module should an electronic display (e-labeling) be used to meet the FCC and IC labeling requirements (Refer to FCC KDB 784748 D02 e labeling document and IC Notice 2014-DRS1003 for guidance).
- The Open-Q 4200 SIP is a pre-certified Wi-Fi/BT module that requires specific binary files for WLAN and BT, and a WLAN configuration file to maintain compliance. The correct binary files for WLAN and BT along with the WLAN configuration file are included with the Android releases from Lantronix (as indicated in the software release notes). Customers programming the SIP with other OS images must contact Lantronix to ensure they have incorporated the correct files to maintain compliance.
- For Open-Q 4200 SIPs intended for sale in Europe, please ensure that it has been reconfigured for Europe as the default configuration is for FCC and will not be CE compliant. Please contact Lantronix Technical Support for the instructions on how to configure for Europe.

Lantronix, Inc.

- 48 Discovery, Suite 250 Irvine, CA 92618 USA
- **Toll-Free:** 800-526-8766
- **Phone:** 949-453-3990
- **Fax:** 949-453-3995
- **Lantronix Technical Support** https://www.lantronix.com/support.

Documents / Resources

	LANTRONIX Open-Q 4200 SIP Wi-Fi BT OEM Integrator [pdf] User Guide Open-Q 4200 SIP, Open-Q 4200 SIP Wi-Fi BT OEM Integrator, Wi-Fi BT OEM Integrator, OEM Integrator, Integrator

References

- Lantronix Embedded Compute Portal
- User Manual