

OEM Installation Guidance Document
For Broadcom 802.11a/g/n/ac/ax WLAN + Bluetooth PCI-E Custom Combination Card
BCM94378FCPAGBE
FCC ID: QDS-BRCM1094

The radio module is only offered for sale to a specific OEM manufacturer, and not for sale to end users and consumers.

Conditions on using BRCM regulatory approvals:

- A. OEM manufacturer must ensure that its product (the “OEM MANUFACTURER Product”) is electrically identical to Broadcom’s reference designs. OEM manufacturer acknowledges that any modifications to Broadcom’s reference designs may invalidate regulatory approvals in relation to the OEM MANUFACTURER Product, or may necessitate notifications to the relevant regulatory authorities.
- B. OEM manufacturer is responsible for ensuring that antennas used with the product are of the same type, with same or lower gains as approved and providing antenna reports to Broadcom.
- C. OEM manufacturer is responsible for regression testing to accommodate changes to Broadcom’s reference designs, new antennas, and portable RF exposure safety testing/approvals.
- D. Appropriate labels must be affixed to the OEM Product that comply with applicable regulations in all respects.
- E. A user’s manual or instruction manual must be included with the OEM product that contains the text as required by applicable law. Without limitation of the foregoing, an example (for illustration purposes only) of possible text to include is set forth below:

1. USA—Federal Communications Commission (FCC)

FCC COMPLIANCE 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.

INFORMATION TO USER:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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. If not installed and used in accordance with the instructions, it 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

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television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the distance between the equipment and the receiver.
- Connect the equipment to 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.

CAUTION: (this only applicable to 5GHz device)

This device is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. FCC requires this product to be used indoors for frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.

System integrators must include the FCC ID on the end product.

FCC Radio-Frequency Exposure & Approval Conditions:

1. Antennas must be installed in the display section of Netbook/notebook/laptop computer to provide at least 20cm separation distance from the transmitting antenna to the body of user during normal operating condition.
2. Transmitting antenna(s) can only be installed at the display section of computer. When this device is installed other than notebook computers, at least 20 cm separation distance shall be maintained between the transmitting antenna(s) to the body of user or nearby person.
3. The antenna(s) used for this transmitter must not be collocated or operating in conjunction with any other antenna or transmitter within a host device, except in accordance with FCC multi-transmitter product procedures.
4. Only those antennas with same type and lesser gain filed under this FCC ID number can be used with this device.
5. The regulatory label on the final system must include the statement: "Contains FCC ID: QDS-BRCM1094" or using electronic labeling method as documented in KDB 784748.

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6. The final system integrator must ensure there is no instruction provided in the user manual or customer documentation indicating how to install or remove the transmitter module except such device has implemented two-ways authentication between module and the host system.

7. The final host manual shall include the following regulatory statement:


This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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. If not installed and used in accordance with the instructions, it 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 tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

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

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.

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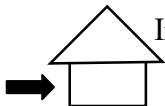
2. Europe - EU Restrictions

This equipment needs to be marked with the  symbol and can be used throughout the European community.

Information to be supplied to the users:

802.11a Restrictions:

- This product is for indoor use only when using channels 36, 40, 44, 48, 52, 56, 60, or 64 (5150–5350 MHz).
- DFS and TPC must remain enabled to ensure product compliance with EC regulations.
- To ensure compliance with local regulations, be sure to select the country in which the access point is installed.
- This product can be used as shown in the table below:

5 GHz wireless LAN IEEE 802.11a	 Indoor Use Only	A, AND, B, CH, D, CY, CZ, DK, ES, EST, F, FIN, FL, FR, GB, GR, H, I, IRL, IS, L, LT, M, MC, N, NL, P, PL, RSM, S, SK, SLO, V
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Caution: Exposure to Radio Frequency Radiation.

To comply with RF exposure compliance requirements, for mobile configurations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. Further RF exposure evaluations may be necessary for the host units with portable or mobile use.

Czech:

User's Manual in Czech language and a statement of conformity with Directive 2014/53/5/EC in Czech language must be enclosed to each product.

France:

2.4GHz for Metropolitan France:

In all Metropolitan départements, wireless LAN frequencies can be used under the following conditions, either for public or private use:

- Indoor use: maximum power (EIRP*) of 100 mW for the entire 2400-2483.5 MHz frequency band

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· Outdoor use: maximum power (EIRP*) of 100 mW for the 2400-2454 MHz band and with maximum power (EIRP*) of 10 mW for the 2454-2483 MHz band

Italy:

For private use, a general authorisation is required if WAS/RLAN's are used outside own premises. For public use, a general authorisation is required

Note for system integrators:

- The module is tested to comply with the requirement of the RED Directive. System integrators are responsible for compliance of the final device with the RED Directive.
- Packaging: CE Marking must also be on the outer packaging of the product. The outer packaging must also provide an indication as to where the device is intended to be used and OR conversely, where there may be restrictions for use.
- System integrators are must mark the product packaging with new book symbol (from draft implementing act 10.10), and the list of countries.

-System integrators should include the following information into the system manual.
2400-2483.5MHz 20.0dBm EIRP;
5150-5350MHz 22.0dBm EIRP;
5470-5725MHz 22.0dBm EIRP;
5725-585MHz 13.9dBm EIRP.