

Quick Start Guide


Bluetooth® Module, BCM92070MD_REF12

Thank you for purchasing a Broadcom Bluetooth Module. Before you begin to use the Bluetooth Module, you will require the following items:

The Software Installation Compact Disc included with your Bluetooth Module.

Note: This module is not intended for installation by end users.

Installing the Software

1. Insert the Bluetooth Module installation compact disc (CD) into the CD-ROM or DVD drive of your computer.
2. If the Main Menu screen appears automatically, select Install software and click OK. If the Main Menu screen does not appear automatically, click Start, click Run, type `x:\setup.exe` (where x is the CD-ROM or DVD drive letter of your computer), and click OK.
3. Click Next, click Finish, and then restart your computer.
4. Right-click the Bluetooth icon  in the taskbar notification area (system tray) and click Start Using Bluetooth. Follow the instructions provided by the Initial Bluetooth Configuration Wizard.

Glossary

Authentication	A Bluetooth security feature that is used to verify identity; it requires a Bluetooth PIN Code from the remote device.
Authorization	A Yes-or-No Bluetooth security feature that requires operator intervention to avoid having the connection time out and fail.
Bluetooth device	Bluetooth enabled hardware such as a computer, printer, fax, mouse, keyboard, cell phone, headset, or PDA.
Bluetooth PIN Code	The alphanumeric string (up to 16 characters) that is typed to respond to a Bluetooth PIN Code Request. Also referred to as a Passkey.
Bluetooth®	A short-range (9.14 meters/30 feet) networking protocol that allows enabled devices to automatically recognize each other. Bluetooth wireless technology allows quick and easy connectivity of Bluetooth enabled devices.
Client Applications	Software applications on this computer that allow this computer to use the Bluetooth services provided by remote Bluetooth devices.
Link Key	An internally generated unique security key (based on a Passkey, the Bluetooth Device Address, and an internally generated random number) that is exchanged by paired devices as proof of identity before a connection is established.
Local Services	Services that this computer provides to other Bluetooth devices.
Paired Devices	Bluetooth devices must be paired before they can connect. Paired devices share a unique Link Key, which they exchange each time they connect.
Secure Connection	A setting that requires a Passkey or Link Key each time you attempt to make a connection. All data exchanged over the Bluetooth connection is encrypted. Depending on other configuration options, authorization may also be required.

Regulatory Statements for BCM92070MD_REF12

USA-Federal Communications Commission (FCC)

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.

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

Caution: Exposure to Radio Frequency Radiation.

To comply with FCC RF exposure compliance requirements, this device must not be co-located or operating in conjunction with any other antenna or transmitter within a host device, except in accordance with FCC multi-transmitter product procedures.

If the module is installed in portable hosts, where the separation distance between radiating elements and the user is less than 20cm, additional equipment authorization procedure to address RF exposure compliance shall apply. If the module is installed with other transmitting devices which can transmit simultaneously with this device and antenna-to-antenna distance is less 20cm, assessing RF exposure compliance with multiple transmitters within a host device shall be performed based upon FCC requirements.

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

End product must be labeled with "Contains FCC ID: QDS-BRCM1049".

Canada – Industry Canada (IC)

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.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.”

L ‘ utilisation de ce dispositif est autorisée seulement aux conditions suivantes : (1) il ne doit pas produire de brouillage et (2) l’ utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

Caution: Exposure to Radio Frequency Radiation.


To comply with RSS 102 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. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

In addition to the onboard antenna, this device has been designed to also operate with a detachable PIFA antenna, and having a maximum gain of 3.9dB. Any other detachable antennas, with a different type or having a gain greater than 3.9dB are strictly prohibited for use with this device. The required antenna impedance is 0 ohms.

End product must be labeled with “Contains IC ID: 4324A-BRCM1049”.

Europe—EU Declaration of Conformity and Restrictions

Hereby, Broadcom Corp, declares that this equipment complies with the essential requirements and other relevant provisions of Directive 1999/5/EC.

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

This indicates compliance with the R&TTE Directive 1999/5/EC and meets the relevant parts of following technical specifications:

EN 300 328 – Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission Systems; Data transmission equipment operating in the 2,4GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE directive.

EN 301 489-17 - Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17 Specific Conditions for Wideband Data and HIPERLAN Equipment.

EN 60950-1 - Safety of Information Technology Equipment.

EN 62311 – Assessment of electronic and electrical equipment related to human exposure restrictions

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**
- 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**

Taiwan NCC warning statement


低功率電波輻射性電機管理辦法

第十二條經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信規定作業之無線電信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Appendix:

模組認證合格標籤 (ID):

“ CCXXxxLPyyyZz ”

如果使用本模組之平台，無法在外部看見審驗合格標籤時，應在該平台的外部明顯標示

“內含射頻模組  CCXXxxLPyyyZz” .