

1. Overview

The TI WL1837MOD is a Wi-Fi®, Bluetooth®, and BLE module. The WL1837MOD is a certified WiLink™ 8 module from TI that offers high throughput and extended range along with Wi-Fi and Bluetooth coexistence in a power-optimized design. The WL1837MOD offers a 2.4 GHz module solution with two antennas supporting an industrial temperature grade. The module is FCC, ISCED, and ETSI/CE certified for client operation. TI offers drivers for high-level operating systems, such as Linux®, Android™, WinCE, and RTOS.

FCC ID: 2BBL7-WL18DBMOD

IC: 30955-WL18DBMOD

Model: STS-WL18MODGI

1.1 General Features

- WLAN, Bluetooth, and BLE on a single module board
- 100-pin board card
- Dimensions: 76.0 mm (L) × 31.0 mm (W)
- WLAN 2.4 GHz SISO (20- and 40-MHz channels) and 2.4 GHz MIMO (20-MHz channels)
- Support for BLE dual mode
- Seamless integration with TI Sitara and other application processors
- ... (rest of the list remains the same)

2.2 Jumper Connections

- J1: Jumper connector for V10 power input
- J3: Jumper connector for VBAT power input
- J5: RF connector for 2.4 GHz WLAN and Bluetooth
- J6: Second RF connector for 2.4 GHz WLAN

Regulatory Information

Manual Information to the End User

The OEM integrator must 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 which integrates this module. The end-user manual shall include all required regulatory information/warning as shown in this manual.

Federal Communication Commission (FCC) 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, 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.

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.

Industry Canada (ISED) Compliance Statement

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.

This device complies with the Canadian ICES-003 Class B specifications. CAN ICES-003(B) / NMB-003 (B).

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempt de licence. L'exploitation est autorisée aux deux conditions suivantes :

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

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

Radiation Exposure Statement

This equipment complies with FCC and ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. In order to avoid the possibility of exceeding the FCC and ISED RSS-102 radio frequency exposure limits, this equipment should be installed and operated with minimum distance 20 cm (7.9 inches) between the antenna and your body during normal operation. Users must follow the specific operating instructions for satisfying RF exposure compliance.

Cet équipement est conforme aux limites d'exposition aux rayonnements FCC et ISED CNR-102 établies pour un environnement non contrôlé. Cet émetteur ne doit pas être installé ou utilisé en conjonction avec une autre antenne ou un autre émetteur. Afin d'éviter la possibilité de dépasser les limites d'exposition aux radiofréquences FCC et ISED, cet équipement doit être installé et utilisé avec une distance minimale de 20 cm (7.9 pouces) entre l'antenne et votre corps pendant le fonctionnement normal. Les utilisateurs doivent suivre les instructions spécifiques d'utilisation pour respecter la conformité à l'exposition aux RF.

End Product Labeling

When the module is installed in the host device, the FCC/IC ID label must be visible through a window on the final device, or it must be visible when an access panel, door, or cover is easily removed. If not, a second label must be placed on the outside of the final device that contains the following text:

Contains FCC ID: 2BBL7-WL18DBMOD

Contains IC: 30955-WL18DBMOD

The grantee's FCC ID/IC ID can be used only when all FCC/ISED compliance requirements are met.

Information for the OEM Integrator

This device is intended only for OEM integrators under the following conditions:

1. The antenna must be installed such that 20 cm is maintained between the antenna and users.
2. The transmitter module may not be co-located with any other transmitter or antenna.
3. This radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for use with this module. Antenna types not included in the approved list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this transmitter.

Approved Antennas:

Antenna Type	Maximum Gain (dBi) @ 2.4 GHz
Chip Antenna	3.2
Blade Antenna	3.5

In the event that these conditions cannot be met (for example, certain laptop configurations or co-location with another transmitter), then the FCC/IC authorization is no longer considered valid, and the FCC ID/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 FCC/IC authorization.