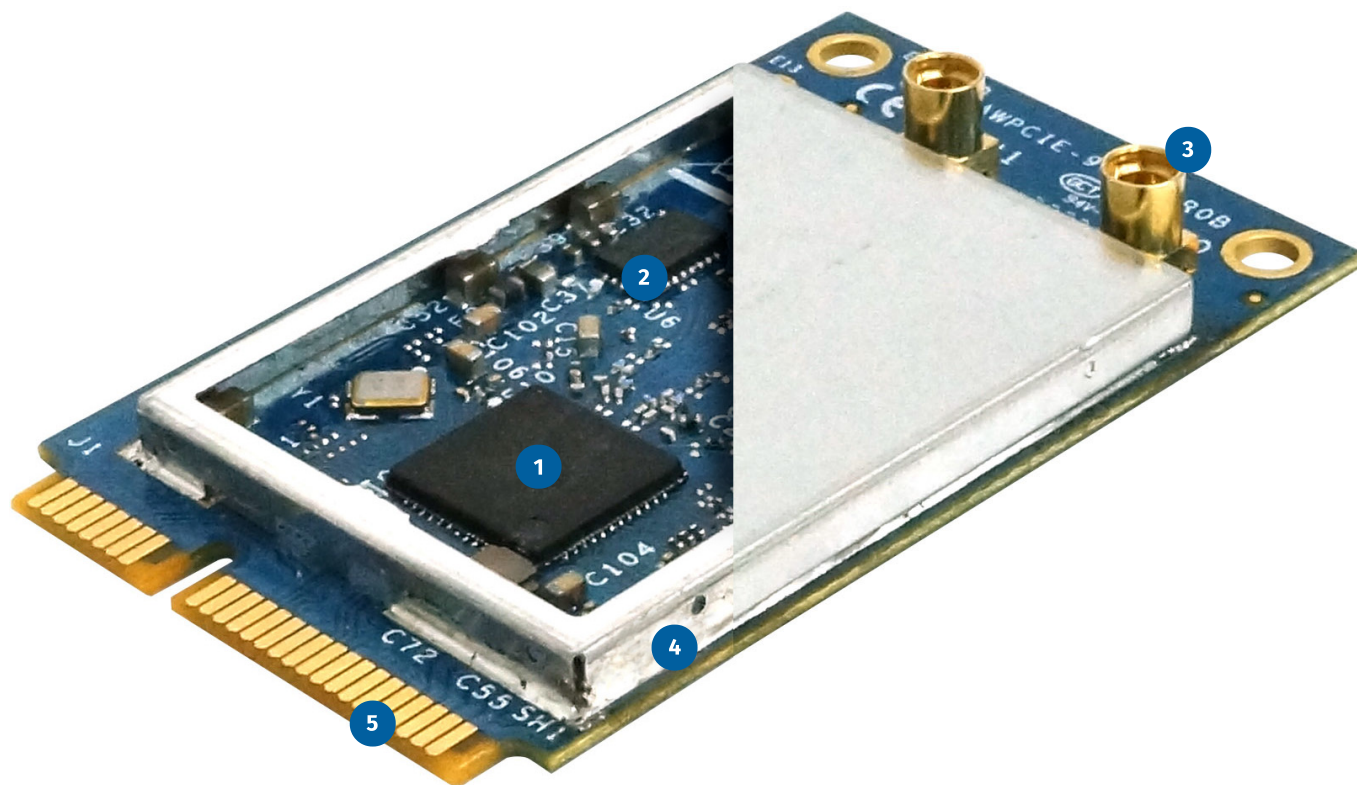




AWMC9886PH is a single-band, high-power 802.11ac module with MMCX antenna connectors

AWMC9886PH is fully compliant with IEEE 802.11ac and 802.11a/n standards, supports 2T2R antenna configuration, MU-MIMO with 2 spatial streams and up to 23.5dBm (223.87mW) transmit power

The QCA9886 is a highly integrated WLAN SOC implementing half-duplex OFDM supporting up to 867 Mbps for 802.11ac 80 MHz channel width operation in 5 GHz band.

Official support in open source driver for Linux, support in OpenWrt system and adoption of MMCX antenna connectors will help kick off your next reliable WiFi project launch.

AWMC9886PH that can use for Indoor AP used

Key features

- 1 Qualcomm™ QCA9886 broadband radio
- 2 Skyworks™ SKY85728-11 FEM with high-power PA
- 3 2× MMCX antenna connectors
- 4 Full body metal shielding design with heatsink
- 5 PCI Express 1.1 interface

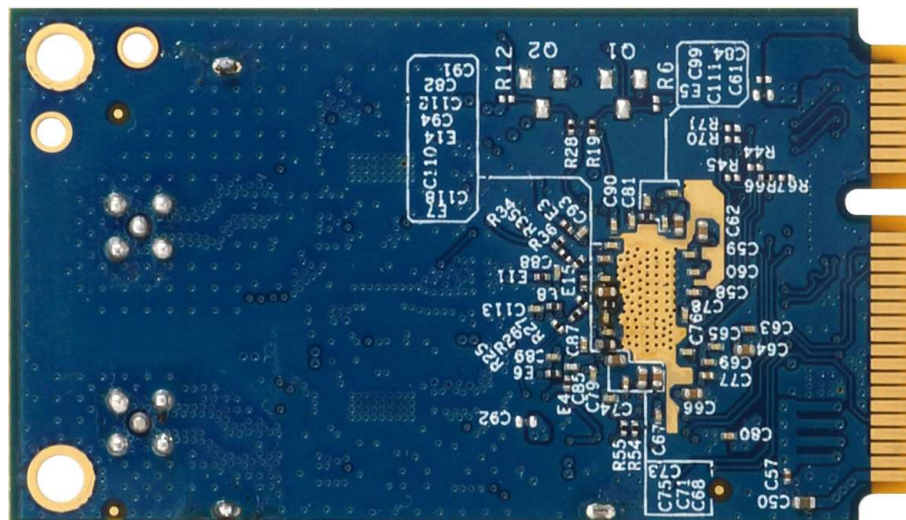
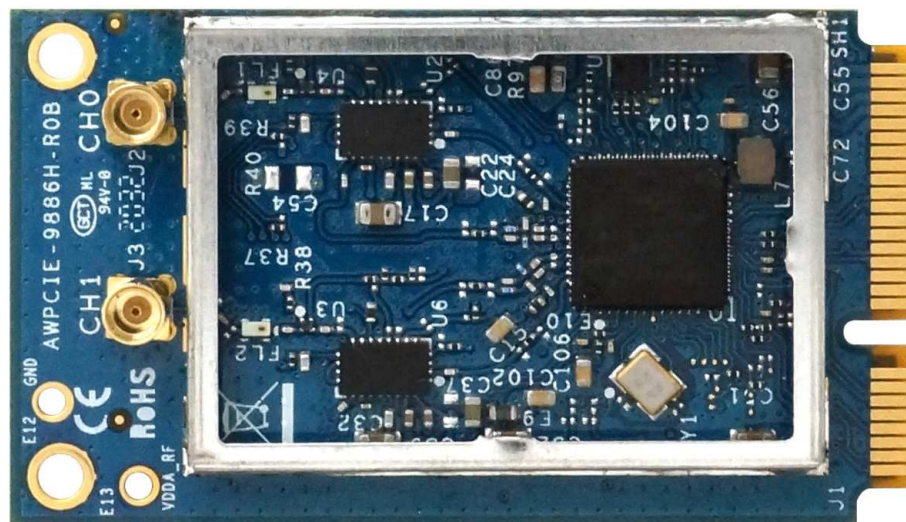
Designed for ALFA Network N2Q

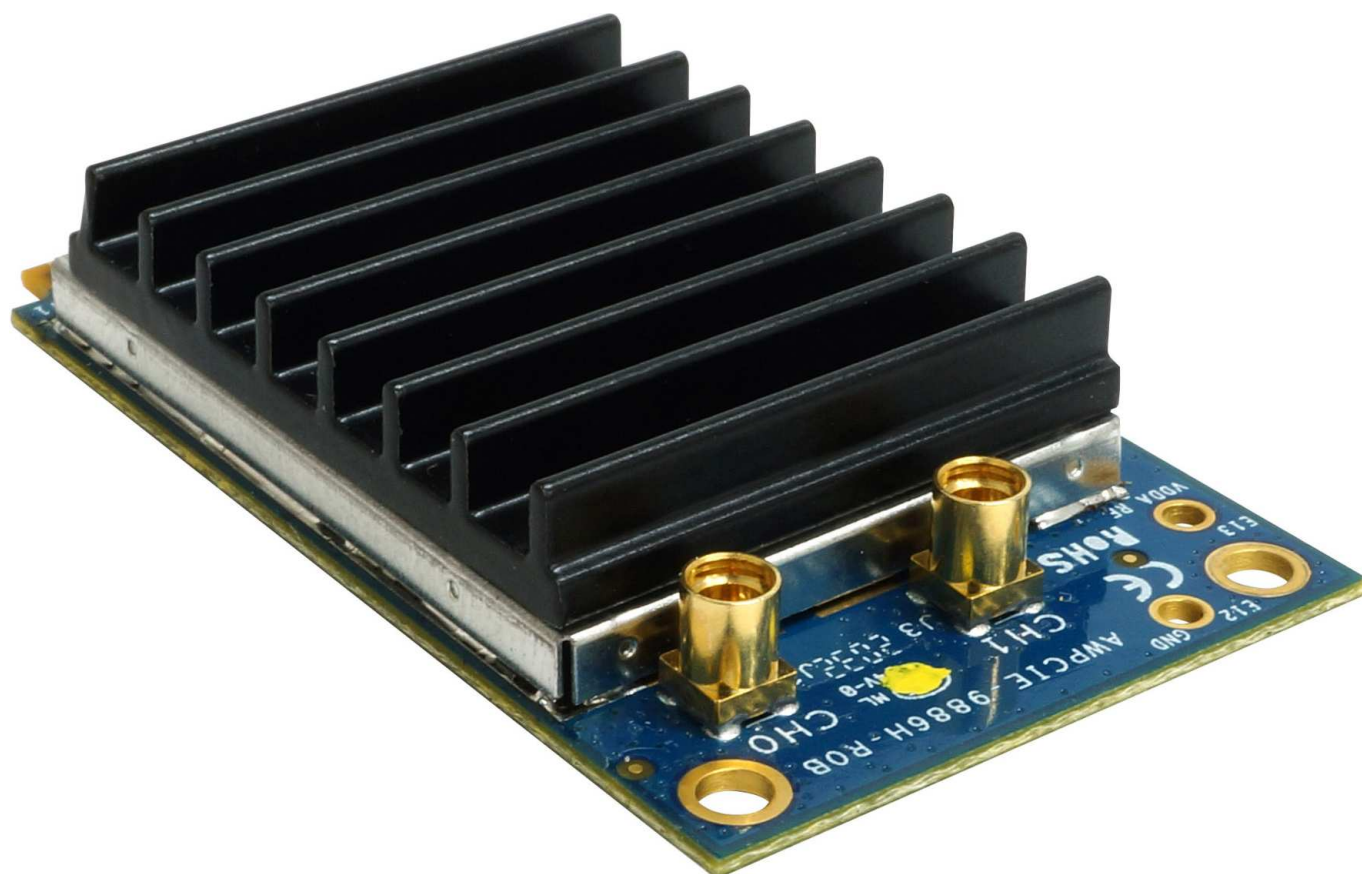
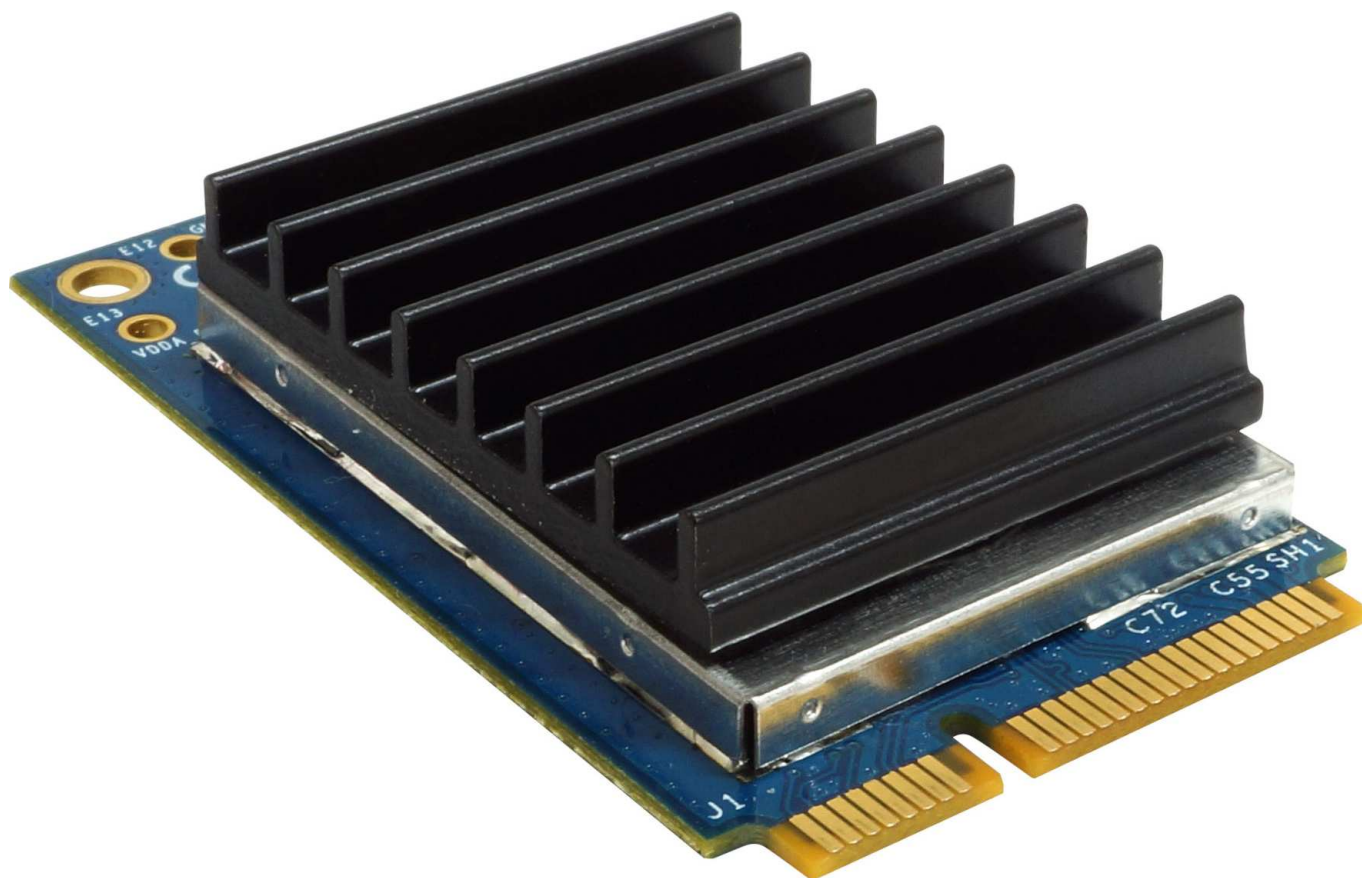


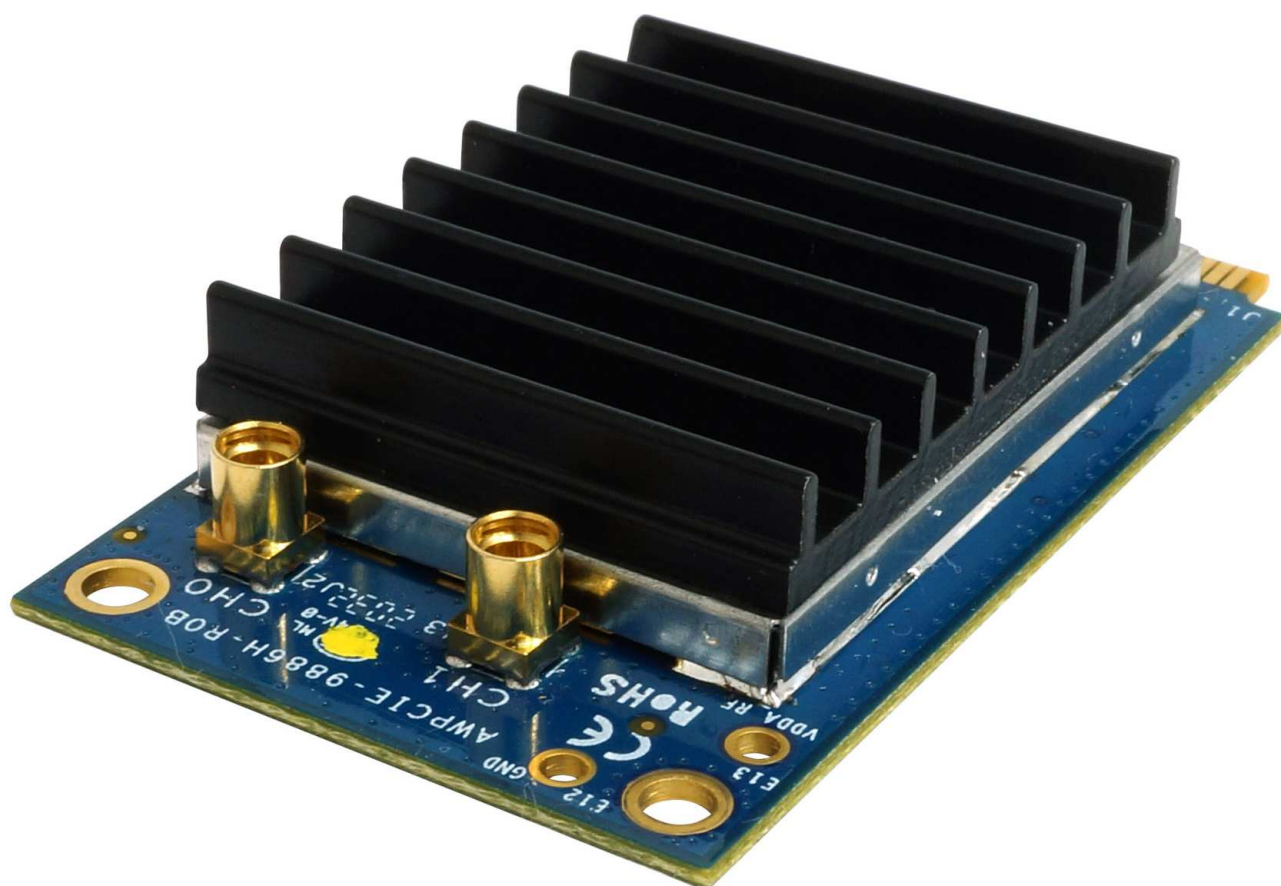
Chipset	Qualcomm™ QCA9886
IEEE 802.11 standards	a/n/ac
Frequency	5 GHz
Data rate	802.11ac: 867 Mbps 802.11n: 300 Mbps
TX power	23 .5dBm (223.8mW)
Antenna connectors	2× MMCX
Interface	PCIe x1
Operating systems	Linux
Form factor	full-size mini PCIe
Operating humidity	10 % ~ 90 % RH, non-condensing
Operating temperature	TBA
Dimensions	30 × 51 × 9.2 mm (with heatsink)

Top		Bottom	
1	PCIe WAKE _n	3.3 V	2
3	COEX1	GND	4
5	NC	NC	6
7	PCIe CLKREQ _n	NC	8
9	GND	NC	10
11	PCIe REFCLK-	NC	12
13	PCIe REFCLK+	NC	14
15	GND	NC	16
Mechanical key			
17	NC	GND	18
19	NC	PCIe W_DISABLE _n	20
21	GND	PCIe PERST _n	22
23	PCIe PER _n 0	NC	24
25	PCIe PER _p 0	GND	26
27	GND	NC	28
29	GND	NC	30
31	PCIe PET _n 0	NC	32
33	PCIe PET _p 0	GND	34
35	GND	NC	36
37	NC	NC	38
39	NC	GND	40
41	NC	NC	42
43	GND	WLAN LED	44
45	5 V ¹	NC	46
47	5 V ¹	NC	48
49	5 V ¹	GND	50
51	5 V ¹	3.3 V	52

¹⁾ additional 5 V power supply is required for correct operation







Federal Communications Commission Statement

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- 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. 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 or more of the following measures:

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

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

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

List of applicable FCC rules

CFR 47 FCC PART 15 SUBPART E has been investigated. It is applicable to the modular.

Specific operational use conditions

This module is stand-alone modular. If the end product will involve the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, host manufacturer have to consult with module manufacturer for the installation method in end system.

Limited module procedures Not applicable

Trace antenna designs Not applicable

RF exposure considerations

To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance of 20cm from your body.

Antennas

This radio transmitter FCC ID: 2AB879886 has been approved by Federal Communications Commission to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Antenna type	Maximum Antenna gain
Dipole Antenna	5 dBi

Label and compliance information The final end product must be labeled in a visible area with the following " Contains FCC ID:2AB879886 "

Information on test modes and additional testing requirements

Host manufacturer is strongly recommended to confirm compliance with FCC requirements for the transmitter when the module is installed in the host.

Additional testing, Part 15 Subpart B disclaimer

Host manufacturer is responsible for compliance of the host system with module installed with all other applicable requirements for the system such as Part 15 B.

- ISEDC Radiation Exposure Statement:

This device complies with Innovation, Science and Economic Development Canada Compliance licence-exempt RSS standard (s). 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 the device.

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique. Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ISEDC Radiation Exposure Statement:

This equipment complies with ISEDC RF 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. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

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.

L'appareil destiné à fonctionner dans la bande 5150-5250 MHz est uniquement destiné à une utilisation à l'intérieur afin de réduire le risque d'interférence nuisible aux systèmes mobiles par satellite dans le même canal.

Antenna model: ARS-NT5B7 , The antenna gain is as follows:

Antenna type	Maximum Antenna gain
Dipole Antenna	Ant0(Chain 0): 5dBi Ant1(Chain 1): 5dBi

Note: CAN ICES(B)/NMB(B)

ISED Important Note:

In the event that 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 ISED 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.

Any company of the host device which install this modular with limit modular approval should perform the test of radiated emission and spurious emission according to RSS-247 and RSSGen requirement, only if the test result comply with RSS-247 and RSS-Gen requirement, then the host can be sold legally.

Note Importante:

Dans le cas où ces conditions ne peuvent être satisfaites (par exemple pour certaines configurations d'ordinateur portable ou de certaines co-localisation avec un autre émetteur), l'autorisation du Canada n'est plus considérée comme valide et l'ISED ne peut pas être utilisé sur le produit final. Dans ces circonstances, l'intégrateur OEM sera chargé de réévaluer le produit final (y compris l'émetteur) et l'obtention d'une autorisation distincte au Canada. toute entreprise de l'hôte qui installent ce dispositif modulaire avec limite approbation devrait effectuer l'essai des modules et des rayonnements non essentiels des émissions rayonnées selon rss-247 et le cnr - gen, seulement si le résultat d'essai conforme rss-247 et le cnr - gen, puis l'hôte peut être vendu légalement.

End Product Labeling

The final end product must be labeled in a visible area with the following: Contains IC:25927-9886.

Plaque signalétique du produit final

Le produit final doit être étiqueté dans un endroit visible avec l'inscription suivante: Contient des IC:25927-9886.

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 which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.

Manuel d'information à l'utilisateur final

L'intégrateur OEM doit être conscient de ne pas fournir des informations à l'utilisateur final quant à façon d'installer ou de supprimer ce module RF dans le manuel de l'utilisateur du produit final qui intègre ce module.

Le manuel de l'utilisateur final doit inclure toutes les informations réglementaires requises et avertissements comme indiqué dans ce manuel.

This radio transmitter [25927-9886] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, It has an antenna with the maximum antenna gain is 5dBi.

Antenna type	Maximum Antenna gain
Dipole Antenna	5dBi

Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Cet émetteur radio [25927-9886] a été approuvé par Innovation, Science et développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous.

Il dispose d'une antenne avec une prise le gain maximum d'antenne est de 5 dBi.

Antenna type	Maximum Antenna gain
Dipole Antenna	5dBi

Les types d'antennes non inclus dans cette liste qui ont un gain supérieur au gain maximum indiqué pour tout type répertorié sont strictement interdits pour l'utilisation avec cet appareil.