

User Manual

Product: 4.0G LET

Manufacturer: Honda Motor Co., Ltd.

Model: E4000-01

For Original Equipment Manufacturer integration only - this device cannot be sold to the general public

FCC ID: N43E400001

IC: 2500A-E400001

This is Limited modular approval as this module is limited to installation by the grantee into our host systems.

The OEM must include the following notices as required by FCC/IC on the product and in the User's Manual.

[for FCC]

Contains Transmitter Module FCC ID: N43E400001

or

Contains FCC ID: N43E400001

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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*If it is difficult to describe this statement on the host device due to the size, please describe in the user's manual and also either describe on the device packaging or on a removable label attached to the device.

[for ISED(IC)]

Contains IC: 2500A-E400001

[for FCC]

FCC CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
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This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.
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The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. 4.0G LET, Model E4000-01 has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines.
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[for ISED]

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.

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 exempts 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.

for indoor use only

Pour usage intérieur seulement

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. 4.0G LET, Model E4000-01 has been tested and found to comply with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules.

Les connaissances scientifiques dont nous disposons n'ont mis en évidence aucun problème de santé associé à l'usage des appareils sans fil à faible puissance. Nous ne sommes cependant pas en mesure de prouver que ces appareils sans fil à faible puissance sont entièrement sans danger. Les appareils sans fil à faible puissance émettent une énergie fréquence radioélectrique (RF) très faible dans le spectre des micro-ondes lorsqu'ils sont utilisés. Alors qu'une dose élevée de RF peut avoir des effets sur la santé (en chauffant les tissus), l'exposition à de faibles RF qui ne produisent pas de chaleur n'a pas de mauvais effets connus sur la santé. De nombreuses études ont été menées sur les expositions aux RF faibles et n'ont découvert aucun effet biologique. Certaines études ont suggéré qu'il pouvait y avoir certains effets biologiques, mais ces résultats n'ont pas été confirmés par des recherches supplémentaires. 4.0G LET, Model E4000-01 a été testé et jugé conforme aux limites d'exposition aux rayonnements ISDE énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'ISDE.

The following notice is not for end users but for the manufacturer of the host device.
Therefore it isn't described on the user manual of the host device.

This device complies with below part 15 of the FCC Rules.

Part 15 Subpart C

Part 15 Subpart E

The modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant (FCC Part 15.247/ FCC Part 15.407), and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.

The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

For product available in the USA/Canada market, only channels 1-11 can be operated. Selection of other channels is not possible.

If this device is to be operated in the 5.15~5.25GHz frequency range, it is restricted to indoor environments only.

Antenna: Proprietary

Antenna gain information:

1.Embedded Antenna: 3.25dBi (2.4 GHz), 5.0dBi (5 GHz)

2.Embedded Antenna (excluding antenna trace loss): 3.5dBi (2.4 GHz), 3.5dBi (5 GHz)

Frequency Tolerance : +/-20ppm

General Specifications

Chipset:	QCA9377-3, (Qualcomm Atheros)
Host Interface:	Wifi: SDIO v3.0; BT: High Speed UART
Operating Voltage:	3.30 VDC +/- 5%
Operating Temperature:	-20 to +70 degrees C
Dimensions:	18.0 x 13.0 x 2.2 mm (L x W x D)
Connector Type:	52-pin proprietary
Radio Specifications:	802.11b/g/n: 2.412 - 2.462 GHz; 802.11a/n/ac: 5.18 - 5.825 GHz BT: 2.402 – 2.480 GHz
Link Rates (1 stream):	IEEE 802.11b: 1-11 Mbps IEEE 802.11g: 6-54 Mbps IEEE 802.11a: 6-54 Mbps

IEEE 802.11n HT20: 6.5-65.0 Mbps

IEEE 802.11n HT40: 13.5-135.0 Mbps

IEEE 802.11ac VHT20: 6.5-78.0 Mbps

IEEE 802.11ac VHT40: 13.5-180.0 Mbps

IEEE 802.11ac VHT80: 29.3-390.0 Mbps

Modulation Modes:

OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK),

DSSS (CCK, DQPSK, DBPSK),

GFSK (1Mbps), $\pi/4$ DQPSK (2Mbps), 8DQPSK (3Mbps)

Hardware Encryption:

WEP, WPA/WPA2 (TKIP/AES-CCMP), WAPI

Quality of Service (QoS):

WMM, WMM-PS, 802.11e