APPENDIX H

: USER'S MANUAL

ZigBee Module User Information

(Model Name : ZB-MODULE-T-A)

Contents

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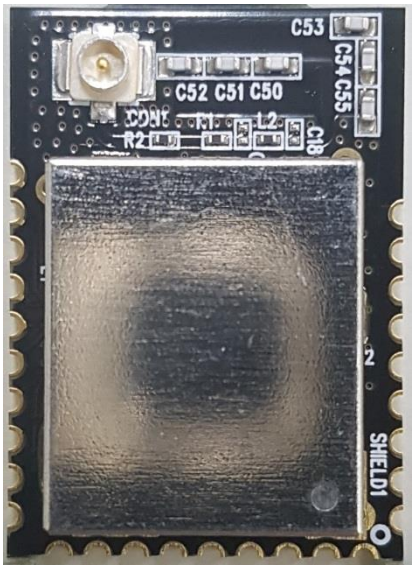
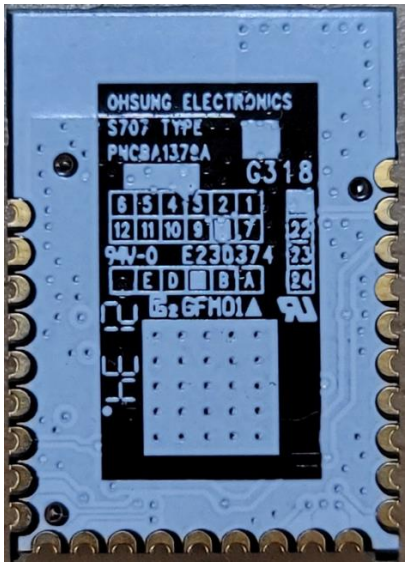
1. Photo





2. Summary

1) The module is a device to enable zigbee communication of the product to be installed..
2) The product equipped with the module can be monitored and controlled through zigbee communication.
3) This module is mounted on the body using a SMD PAD.
   (PAD Pin map – Pin Description Note)
4) Module is limited to ODM installation ONLY.
5) ODM integrators is responsible for ensuring that the end-user has no manual instructions to remove or install module.
6) Module is limited to installation in mobile or fixed applications, according to Part 2.1091(b).
7) Separate approval is required for all other operating configurations, including portable configurations with respect to Part 2.1093 and different antenna configuration

3. Specification

Division	Contents
Model Name	ZB-MODULE-T-A
Frequency Band	2405MHz ~ 2480MHz
Channel	16 EA
Transmit Power	9 dBm
Sensitivity	–90 dBm
Modulation	O-QPSK
Antenna	PCB Pattern Antenna Dipole Antenna PCB Antenna
Size	15.5 * 21.72 * 2.5 mm (tolerance ± 0.2 mm)
Power	3.3 V
Temperature	-40 ℃ ~ + 85 ℃

4. Support

1) Standard certification
   - KC : MSIP-CRM-OHS-ZB-MODULE
   - FCC ID : OZ5-ZBM
2) Company Name : OHSUNG ELECTRONICS
3) Manufacturing Date : 2017
4) Manufacturer/Country : OHSUNG ELECTRONICS/KOREA
5) Production Name/Model Name : ZigBee Connectivity Module/ZB-MODULE-T-A

FCC Caution

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 2.This device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Grantees are responsible for the continued compliance of their modules to the FCC rules. This includes advising host product manufacturers that they need to provide a physical or e-label stating "Contains FCC ID" with their finished product. See Guidelines for Labeling and User Information for RF Devices – KDB Publication 784748.

Additional guidance for testing host products is given in KDB Publication 996369 D04 Module Integration Guide. Test modes should take into consideration different operational conditions for a stand-alone modular transmitter in a host, as well as for multiple simultaneously transmitting modules or other transmitters in a host product.

The grantee should provide information on how to configure test modes for host product evaluation for different operational conditions for a stand-alone modular transmitter in a host, versus with multiple, simultaneously transmitting modules or other transmitters in a host.
Grantees can increase the utility of their modular transmitters by providing special means, modes, or instructions that simulates or characterizes a connection by enabling a transmitter. This can greatly simplify a host manufacturer's determination that a module as installed in a host complies with FCC requirements.

The grantee should include a statement that the modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant, and that 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. If the grantee markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital circuity), then the grantee shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

Radiation Exposure Statement

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

Canadian (IC)

Two-part Statement (English and French)

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.

Any product for which Modular Approval (MA) or Limited Modular Approval (LMA) is being sought shall meet the labelling requirements in section 4.2.

The ISED certification label of a module shall be clearly visible at all times when installed in the host product; otherwise, the host product must be labelled to display the ISED certification number for the module, preceded by the word "contains" or similar wording expressing the same meaning, as follows:
Contains IC: XXXXXX-YYYYYYYYYY
In this case, XXXXXX-YYYYYYYYYY is the module's certification number."
Please add the statement for label information.