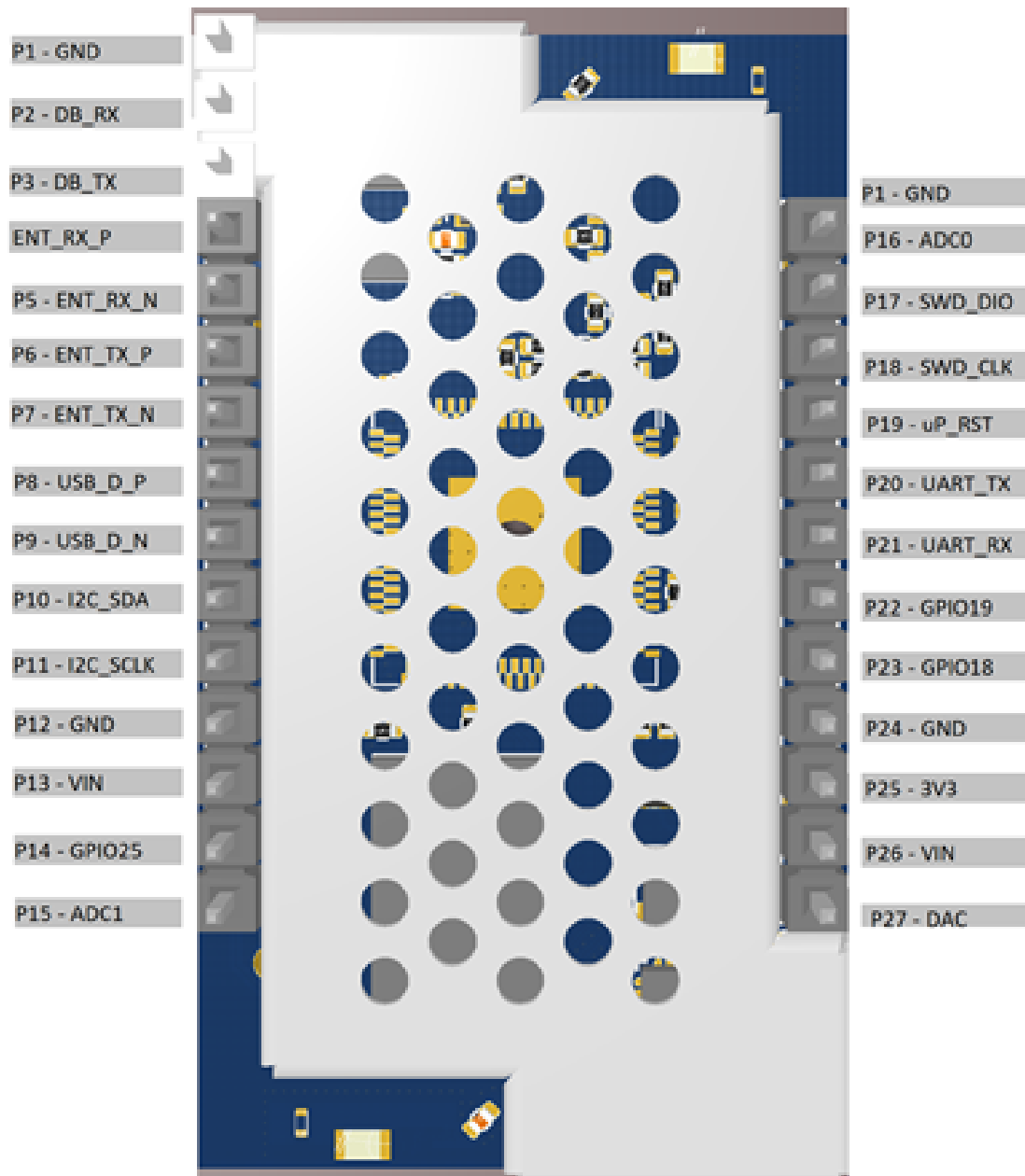




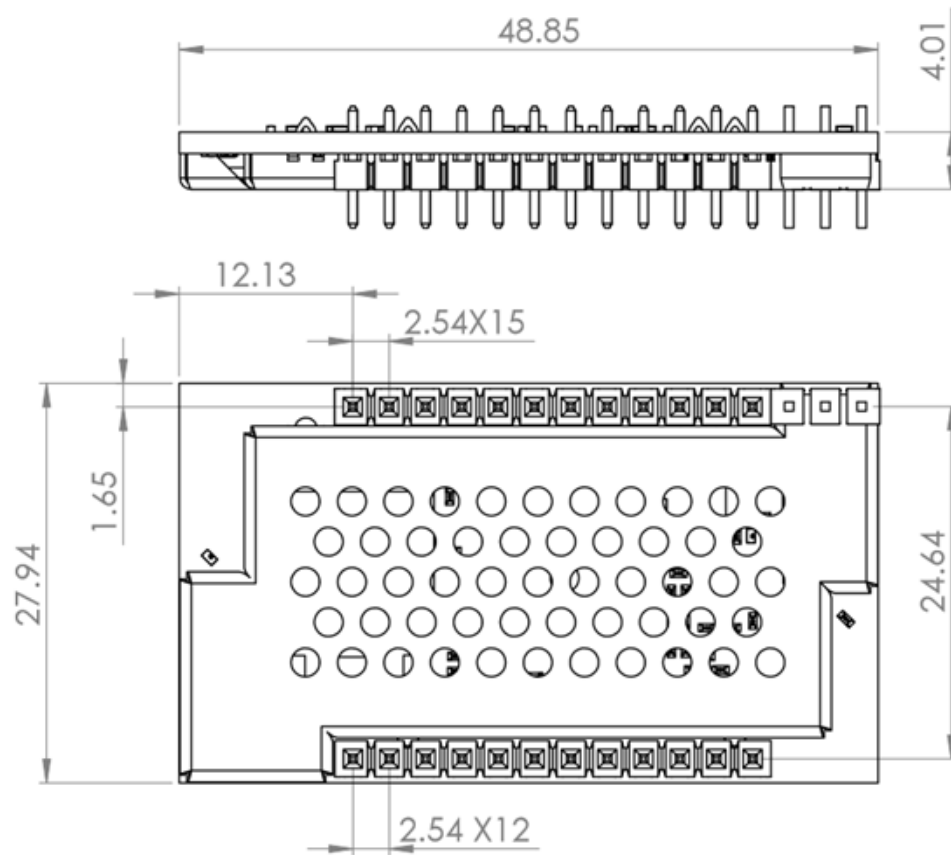
7688/KW41 Module
Model No.:900-00066

Version	Description	Date
1.0	Initial Release	3/23/2017

Connection Pin-out



Dimensions



All dimensions in millimetres

Regulatory and Safety Information

FCC Compliance Statement:

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:

- o Reorient or relocate the receiving antenna.
- o Increase the separation between the equipment and receiver.
- o Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- o Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

Industry Canada Compliance Statement:

"This device complies with Industry Canada 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." This Class B digital apparatus complies with Canadian ICES-003.

"Le présent appareil est conforme aux CNR d'Industrie 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."

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

RF Exposure Statement:

The user is cautioned to maintain a 20cm (8 inch) from the product to ensure compliance with RF exposure requirements.

CE Declaration of Conformity:

The equipment complies with the RF Exposure Requirement 1999/5/EEC, Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0-300 GHz). This equipment meets the following conformance standards:

EN 300 328, EN 301 489-17, EN 60950

CE Declaration of Conformity in Languages of the European Community:

Česky [Czech]: C2 Development, Inc. tímto prohlašuje, že tento zařízený je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.

Dansk [Danish]: Undertegnede C2 Development, Inc. erklærer herved, at følgende udstyr Enhed overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

Deutsch [German]: Hiermit erklärt C2 Development, Inc., dass sich das Gerät in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

Eesti [Estonian]: Käesolevaga kinnitab C2 Development, Inc. seadme vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

English: Hereby, C2 Development, Inc. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Español [Spanish]: Por medio de la presente C2 Development, Inc. declara que el dispositivo cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

Ελληνική [Greek]: ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ C2 Development, Inc. ΔΗΛΩΝΕΙ ΟΤΙ συσκευή ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK.

Français [French]: Par la présente C2 Development, Inc. déclare que l'appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Italiano [Italian]: Con la presente C2 Development, Inc. dichiara che questo dispositivo è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Latviski [Latvian]: Ar šo C2 Development, Inc. deklarē, ka ierīce atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

Lietuvių [Lithuanian]: Šiuo C2 Development, Inc. deklaruoja, kad šis prietaisas atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

Nederlands [Dutch]: Hierbij verklaart C2 Development, Inc. dat het toestel apparaat in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Malti [Maltese]: Hawnhekk, C2 Development, Inc., jiddikjara li dan apparat jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC.

Magyar [Hungarian]: Alulírott, C2 Development, Inc. nyilatkozom, hogy a eszköz megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

Polski [Polish]: Niniejszym C2 Development, Inc. oświadczam, że urządzenie jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.

Português [Portuguese]: C2 Development, Inc. declara que este dispositivo está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

Slovensko [Slovenian]: C2 Development, Inc. izjavlja, da je ta Naprava v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.

Slovensky [Slovak]: C2 Development, Inc. týmto vyhlasuje, že zariadenie spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

Suomi [Finnish]: C2 Development, Inc. vakuuttaa täten että laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Svenska [Swedish]: Härmed intygar C2 Development, Inc. att denna enhet står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Íslenska [Icelandic]: Hér með lýsir C2 Development, Inc. yfir því að tæki er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.

Norsk [Norwegian]: C2 Development, Inc. erklærer herved at utstyret enhet er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

Original Declaration of Conformity Can Be Obtained From:

www.c2development.com/support/docs

European Restrictions For Use of 2.4GHz Frequencies in European Community Countries

only, outdoor installations are not allowed.

inenshuis, worden installaties buitenshuis niet toegestaan.

utilisation en intérieur, les installations extérieures ne sont pas autorisés.

only, outdoor installations are not allowed.

Innenbereich, Outdoor-Installationen sind nicht erlaubt.

only, outdoor installations are not allowed.

utilisation en intérieur, les installations extérieures ne sont pas autorisés.

only, outdoor installations are not allowed.

io interno, installazioni esterne non sono ammessi.

only, outdoor installations are not allowed.

menshuis, worden installaties buitenshuis niet toegestaan.

To remain in conformance with European spectrum usage laws for Wireless LAN operation, the above 2.4GHz channel limitations apply for outdoor usage. If operation is occurring outdoor, as listed above, the user must contact the applicable national spectrum regulator to request a license for outdoor operation.

a

C2 Development, Inc.

Model Number: 900-00066

FCC ID: ZOM-90000066

IC: 9795A-90000066



How to use:

Thank you for purchasing this wireless module, which contains 2.4GHz Wi-Fi, BLE and Zigbee function, before use, please read each function of the pins on board carefully, just as shows in page 2 of this manual.

Please kindly note, the DC power input for this module is 3.3V, so this device should not be designed to connect to USB port directly, or any other DC 5V power system, a DC to DC(5V to 3.3V) IC is required.

For more details about this module, please read the following table.

Item	Description
Product name	7688/KW41 Module
Major Chipset	MT7688(Wi-Fi function) MKW41Z512VHT4(BLE and Zigbee function)
Frequency range	2412-2462MHz(Wi-Fi) 2402-2480MHz(BLE) 2405-2480MHz(Zigbee)
Modulation type	802.11b Mode: DSSS. 802.11g Mode: OFDM. 802.11n Mode HT20: OFDM. 802.11n Mode HT40: OFDM. BLE: GSK Zigbee: O-QPSK
Antenna type	Ceramic antenna(already built on the PCB board)
Power supply	DC3.3V $\pm$ 0.2V
Antenna gain	1.7dBi(Max.)

Warning for OEM:

1. This product should not collocate with other radio
2. The 7688/KW41 Module is designed to comply with the FCC statement. FCC ID is FCC ID:ZOM-90000066. The host system using 7688/KW41 Module, should have label indicated contained FCC ID:ZOM-90000066.
3. Only use with the current equipped antenna will meet necessary FCC requirement, any modification on this module, including antenna and other component on PCB, will result in different RF test result, and need to be re-tested or re-assessment by FCC.