SKGBLEHD01 Specification

Change Record

Version	Implementing Date	Change Reason	Change Description	Drafter
1.0	2022.7.28	Initial	Initial	Yulun Zhu

Catalogue

1 Parameter

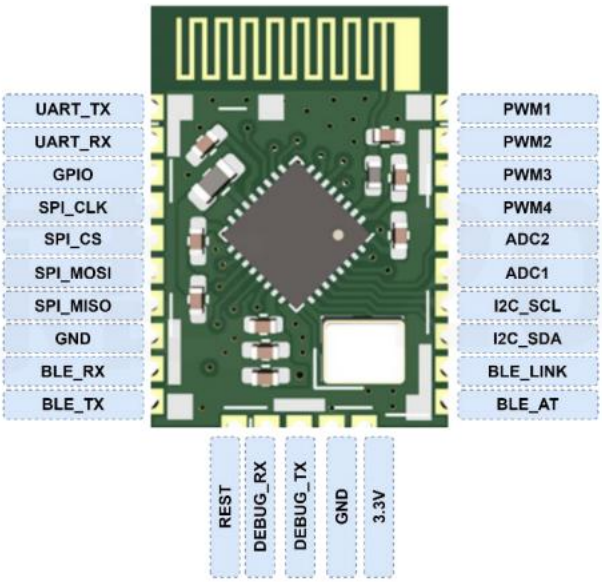
Chip Model	WS8100F5EQ3
Operation Voltage	1.8-3.6V
Operation Frequency	2402 MHz ～ 2480 MHz
Transmitting Power	-20 dbm~+ 7dbm
Receive Sensitivity	-97 dBm sensitivity (in 1 Mbps mode)
RAM	40K SRAM
FLASH	512 KB
Quantity of GPIO	17
Frequency of Crystal	32 MHz
Module Size	11.6 * 16.4 * 2.2 mm
Packaging Type	SMD
Operating Temperature	-20℃~+70℃
Storage Temperature	-40 ℃ ～ + 85 ℃
Antenna Gain（peak）	0.2 dBi

2 Apply To

Industrial wireless control.

- Wearable electronic products.
- Healthy products.
- Smart sockets and lights.
- Bluetooth to serial port products.
- Wireless remote control.

3 Definition Of Chip Pins



4 Related Record

Item	Form Number	Form Name	Department	Record Retention time
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA

5 External info. & Function

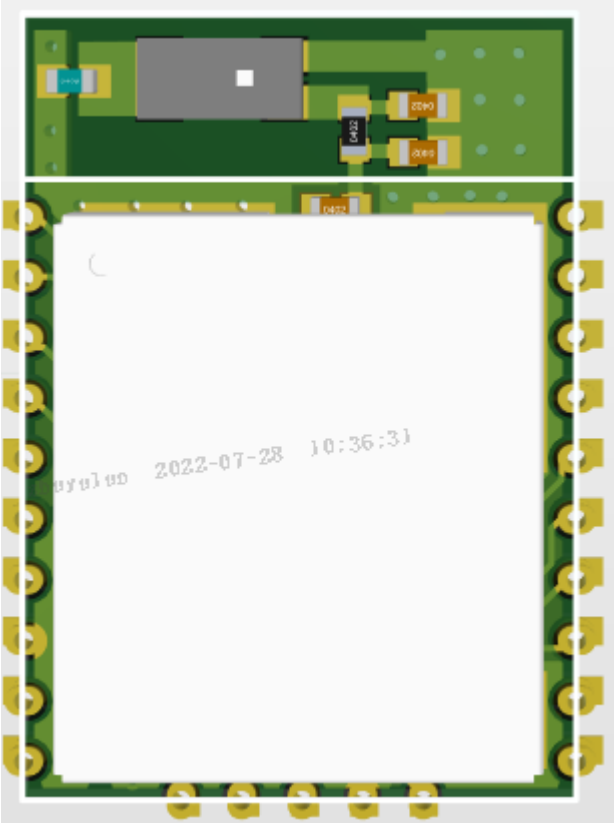
5.1 Hardware & Firmware Version

Bluetooth Module model number	SKGBLEWS01	
Hardware version	H1.1	
Firmware Version	N/A	

5.2 External Apperance And Parameter Requirements

Mainboard PCB external size：16.4mm(Length)*11.6mm(Width),Tolerance：±0.1mm；

PCB Thickness: 1.2mm, Tolerance：±0.12mm。Whole Height(include Shielded enclosure): 2.2mm。



6，Operating instruction

1. **Operational Description:** We did not receive this exhibit. Please note:

a. Per §2.1033(b), an application for a Part 15 device must include "a brief description of the circuit functions of the device along with a statement describing how the device operates." This is meant to address the technical implementation, not just the use of the device. Further information, such as the signaling mode, modulation, etc. should be includ

7 FCC & IC Statement

FCC 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.

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

The modular can be installed or integrated in mobile or fix devices only. This modular cannot be installed in any portable device.

Note: 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.

FCC Radiation Exposure Statement

This modular complies with FCC 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.

The module is limited to OEM installation only

The OEM integrator is responsible for ensuring that the end-user has no manual instructions to remove or install module

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: Contains Transmitter Module FCC

ID:2AYVT-SKGBLEWS01 Or Contains FCC ID: 2AYVT-SKGBLEWS01.

When the module is installed inside another device, the user manual of the host must contain below warning statements;

1. 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.

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

The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

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 FCC part 15C : 15.247 and 15.209 requirement,Only if the test result comply with FCC part 15C : 15.247 and 15.209 requirement，then the host can be sold legally.

Antennas:

Type	Gain
PCB Antenna	0.2dBi

The antenna is permanently attached, can’t be replaced. Trace antenna designs: Not applicable.

ISED 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.

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ouémetteur.

Please notice that if the ISED certification number is not visible when the module is installed inside

another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains IC: 28042-SKGBLEWS01” any similar wording that expresses the same meaning may be used.

Veuillez noter que si le numéro de certification ISDE n’est pas visible lorsque le module est installé à l’intérieur d’un autre dispositif, alors l’extérieur du dispositif dans lequel le module est installé doit également afficher une étiquette se référant au module fermé. Cette étiquette extérieure peut utiliser des libellés tels que: «contient IC: 28042-SKGBLEWS01» toute formulation similaire qui exprime la même signification peut être utilisée.