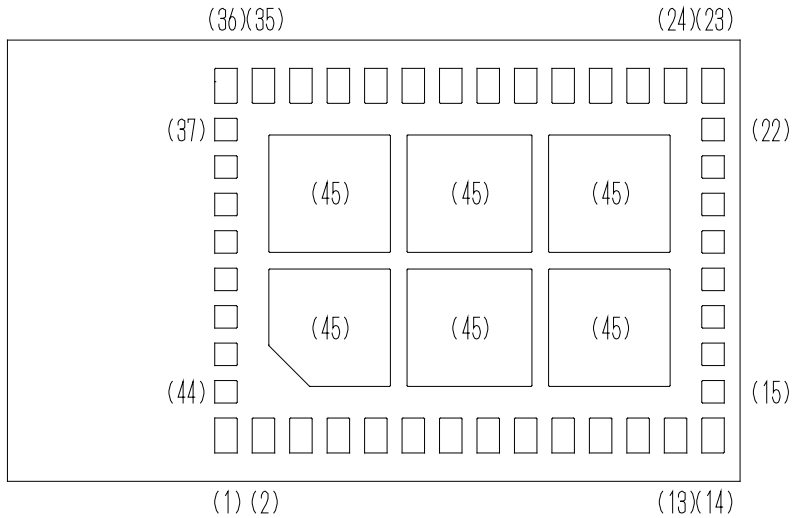


This is the Bluetooth® Dual mode module FWM7BTZ61

The pin assignments and Function of this module are listed in the table.  
Mount the module according to the table below.



<TOP View>

Pin name	No	I/O	Function	External Connection
GND	1	-	Ground	Ground
P13	2	I/O	I2C SCL	SCL pin of Auth 3.0 CP with pull-up
P12	3	I/O	Programmable I/O	NC when not in use
P11	4	I/O	I2C SDA	SDA pin of Auth 3.0 CP with pull-up
P9	5	I/O	Programmable I/O	NC when not in use
P14	6	I/O	Programmable I/O	NC when not in use
NC	7	-	NC	NC
NC	8	-	NC	NC

<b>Pin name</b>	<b>No</b>	<b>I/O</b>	<b>Function</b>	<b>External Connection</b>
P6	9	I/O	Programmable I/O	NC when not in use
P29	10	I/O	Programmable I/O	NC when not in use
P26	11	I/O	Programmable I/O	NC when not in use
P28	12	I/O	Programmable I/O	NC when not in use
P4	13	I/O	Programmable I/O	NC when not in use
GND	14	-	Ground	Ground
VBAT	15	-	Power supply	DC power supply
GND	16	-	Ground	Ground
PUART_TX	17	O	UART data output (For command / data communication)	UART Rx/D
PUART_RX	18	I	UART data input (For command / data communication)	UART Tx/D
PUART_RTS	19	O	UART Request To Send (For command / data communication)	UART CTS
PUART_CTS	20	I	UART Clear To Send (For command / data communication)	UART RTS
NC	21	-	NC	NC
RESET#	22	I	Reset input (Active Low)	RESET
GND	23	-	Ground	Ground
HUART_RX	24	I	UART data output (For HCI or Firmware writing)	NC (*1)
HUART_CTS	25	I	UART data input (For HCI or Firmware writing)	NC (*1)
HUART_RTS	26	O	UART Request To Send output (For HCI or Firmware writing)	NC (*1)
HUART_TX	27	O	UART Clear To Send input (For HCI or Firmware writing)	NC (*1)
GND	28	-	Ground	Ground
GND	29	-	Ground	Ground

<b>Pin name</b>	<b>No</b>	<b>I/O</b>	<b>Function</b>	<b>External Connection</b>
GND	30	-	Ground	Ground
VDDIO	31	-	I/O Power supply	DC power supply
GND	32	-	Ground	Ground
NC	33	-	NC	NC
GND	34	-	Ground	Ground
NC	35	-	NC	NC
GND	36	-	Ground	Ground
NC	37	-	NC	NC
NC	38	-	NC	NC
NC	39	-	NC	NC
NC	40	-	NC	NC
NC	41	-	NC	NC
GND	42	-	Ground	Ground
GND	43	-	Ground	Ground
NC	44	-	NC	NC
GND	45	-	Ground	Ground

\*1: The HUART interface can be used as a firmware rewrite or as a test command interface during certification tests. If necessary, connect to test pins, connectors, microprocessors, etc.

## **Note to users in the United States of America**

### **Caution:**

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

### **Applicable FCC rules**

Part 15 Subpart C

This device complies with below part 15 of 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.

Following information must be indicated on the host device of this module.

Contains Transmitter Module FCC ID: SQK-7BTZ61

or

Contains FCC ID: SQK-7BTZ61

The modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant (Part 15 of the FCC rules), 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.

## **Note to users in the United States of America and Canada**

### **Note to users**

It is strictly forbidden to use antenna except designated.

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

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that is deemed to comply without testing of specific absorption rate(SAR).

Following information must be indicated on the host device of this module.

Contains IC: 337L-7BTZ61

## **Note to users in the United States of America and Canada**

Il est strictement interdit d'utiliser une antenne autre que celle désignée.

Cet équipement ne doit pas être co-localisé ou utilisé en conjonction avec toute autre

autre antenne ou émetteur.

Cet équipement est conforme aux limites d'exposition aux rayonnements de la FCC/IC établies pour un environnement non contrôlé et répond aux directives d'exposition aux radiofréquences (RF) de la FCC et au RSS-102 des règles d'exposition aux radiofréquences (RF) de l'IC. Cet équipement présente de très faibles niveaux d'énergie RF qui sont considérés comme conformes sans test de débit d'absorption spécifique (DAS).

**Note to users in Canada**

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'ISED. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation de l'exposition maximale autorisée.

**Note to users in Canada**

This device complies with ISED licence-exempt RSSs.

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.

**Remarque concernant les utilisateurs au Canada**

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.

## **European Community Compliance Statement**

### **Note:**

Hereby, Fujitsu component Limited, declares that this FWM7BTZ61 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://www.fcl.fujitsu.com/products/wireless-modules/information/red.html>



Model: FWM7BTZ61

Manufacturer: Fujitsu Component Limited

Address: Shinagawa Seaside Park Tower, 12-4, Higashi-shinagawa 4-chome, Shinagawa-ku, Tokyo, 140-8586, Japan

Importer: FUJITSU COMPONENTS EUROPE B.V.

Address: Diamantlaan 25, 2132 WV Hoofddorp, The Netherlands

## **United Kingdom Compliance Statement**

### **Note:**

Hereby, Fujitsu Component Limited, declares that this FWM7BTZ61 is in compliance with the relevant statutory requirements.

The full text of the declaration of conformity is available at the following internet address: <https://www.fcl.fujitsu.com/products/wireless-modules/information/red.html>



Model: FWM7BTZ61

Manufacturer: Fujitsu Component Limited

Address: Shinagawa Seaside Park Tower, 12-4, Higashi-shinagawa 4-chome, Shinagawa-ku, Tokyo, 140-8586, Japan

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