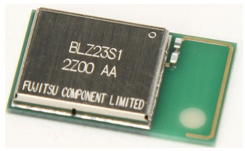
FUJITSU FWM7BLZ23 Wireless Module



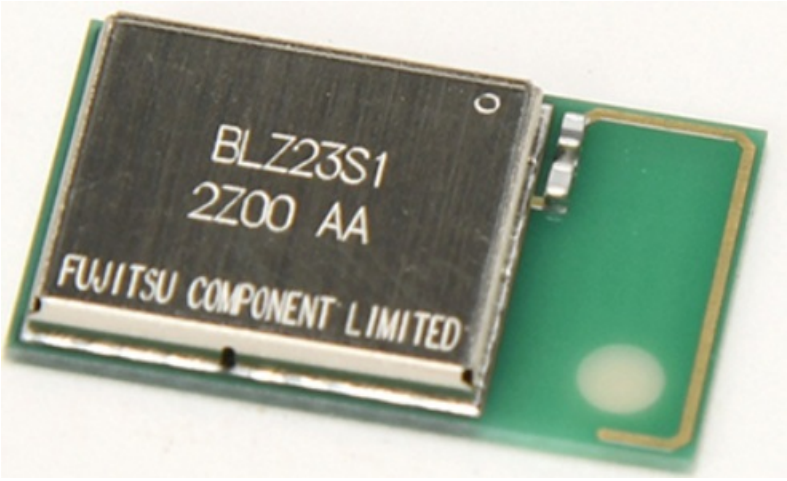
FUJITSU FWM7BLZ23 Wireless Module User Manual

Contents

1 FUJITSU FWM7BLZ23 Wireless Module
2 Product Information
3 Product Usage Instructions
4 <TOP View>
5 Documents / Resources
5.1 References
6 Related Posts

FUJITSU

FUJITSU FWM7BLZ23 Wireless Module



Product Information

Specifications

- Model: FWM7BLZ23
- Connection: Internal
- Microcontroller: nRF52840

Pin Assignments and Functions

No.	Name	Description / External Connection

Product Usage Instructions

Mounting the Module
Mount the module according to the table provided below:

Function Overview
The module provides a range of digital I/O pins for general purpose use. Refer to the pin assignments table for specific functions of each pin.

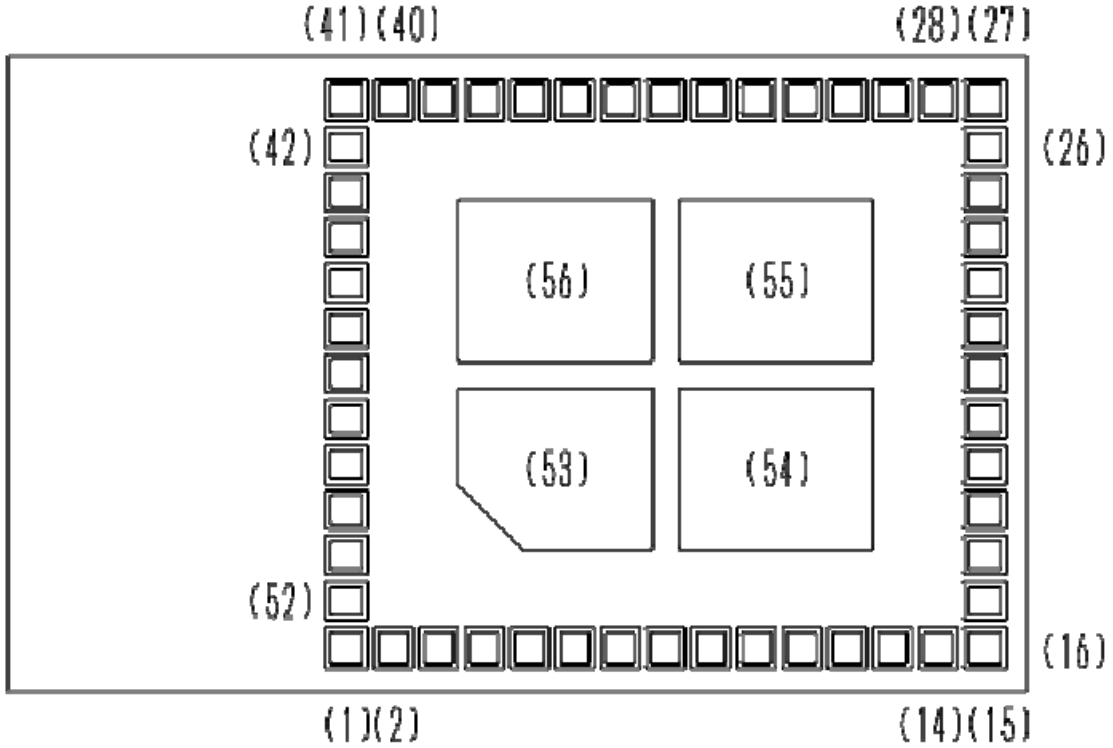
Power Supply
Connect the VDD pin (No. 28) to the power supply pin (No. 48) for proper power input.

Connecting External Devices
For connecting external devices, ensure to match the pin assignments with the corresponding external connections as listed in the table.

Frequently Asked Questions (FAQ)

- **Q: How do I determine the function of a specific pin on the module?**
  A: Refer to the pin assignments table in the user manual to identify the function of each pin on the module.
- **Q: What is the purpose of the ground pins?**
  A: The ground pins (GND) provide a common reference point for the module's electrical circuits and help ensure proper functioning.

This is the Bluetooth® Low Energy enabled module FWM7BLZ23
The pin assignments and Function of this module are listed in the table. Mount the module according to the table below.



<TOP View>

FWM7BLZ23		**Internal connection with**		**Function**	**Description /**
			nRF52840		**External Connection**
No.	**Name**	**No.**	**Name**		
1	GND	–	VSS	GND	Ground pin.
2	GPIO_24	23	P0.24	Digital I/O	General purpose I/O pin. QSPI
3	GND	–	VSS	GND	Ground pin.
4	GPIO_23	22	P0.23	Digital I/O	General purpose I/O pin. QSPI
5	GPIO_14	14	P0.14	Digital I/O	General purpose I/O pin.
6	GPIO_22	21	P0.22	Digital I/O	General purpose I/O pin. QSPI
7	GPIO_21	20	P0.21	Digital I/O	General purpose I/O pin. QSPI
8	GPIO_20	19	P0.20	Digital I/O	General purpose I/O pin.
9	GPIO_12	11	P0.12 TRACEDATA[1]	Digital I/O	General purpose I/O pin. Trace port output.

10	GPIO_11	10	P0.11 TRACEDATA[2]	Digital I/O	General purpose I/O pin. Trace port output.
11	GPIO_1.09	9	P1.09 TRACEDATA[3]	Digital I/O	General purpose I/O pin. Trace port output.
12	GPIO_13	13	P0.13	Digital I/O	General purpose I/O pin.
13	GND	–	VSS	GND	Ground pin.
14	GND	–	VSS	GND	Ground pin.
15	GND	–	VSS	GND	Ground pin.
16	GPIO_0/NC	–	–	–	No Connection
17	GPIO_1/NC	–	–	–	No Connection
18	GPIO_1.15	38	P0.1.15	Digital I/O	General purpose I/O pin.
19	GPIO_3	39	P0.03 AIN1	Digital I/O Analog input	General purpose I/O pin. SAADC/COMP/LPCOMP input.
20	GPIO_2	40	P0.02 AIN0	Digital I/O Analog input	General purpose I/O pin. SAADC/COMP/LPCOMP input.
21	GPIO_28	41	P0.28 AIN4	Digital I/O Analog input	General purpose I/O pin. SAADC/COMP/LPCOMP input.
22	GPIO_30	43	P0.30 AIN6	Digital I/O Analog input	General purpose I/O pin. SAADC/COMP/LPCOMP input.
23	GPIO_31 (U_RX)	44	P0.31 AIN7	Digital I/O	General purpose I/O pin. SAADC/COMP/LPCOMP input.
24	GPIO_7 (U_CTS)	6	P0.07 TRACECLK	Digital I/O	General purpose I/O pin. Trace buffer clock
25	GPIO_29 (U_TX)	42	P0.29 AIN5	Digital I/O	General purpose I/O pin. SAADC/COMP/LPCOMP input.

26	GPIO_5 (U_RTS)	5	P0.05 AIN3	Digital I/O Analog input	General purpose I/O pin. SAADC/COMP/LPCOMP input.

27	GND	–	VSS	GND	Ground pin.
28	VDD	12, 17, 25, 48	VDD	Power	Power supply pin.
29	GND	–	VSS	GND	Ground pin.
30	GPIO_19	18	P0.19	Digital I/O	General purpose I/O pin. QSPI/SCK
31	GPIO_17	15	P0.17	Digital I/O	General purpose I/O pin.
32	GPIO_4	4	P0.04 AIN2	Digital I/O Analog input	General purpose I/O pin. SAADC/COMP/LPCOMP input.
33	GPIO_8	7	P0.08	Digital I/O	General purpose I/O pin.
34	GPIO_1.08	8	P1.08	Digital I/O	General purpose I/O pin.
35	GPIO_10/NFC2	30	NFC2 P0.10	NFC input Digital I/O	NFC antenna connection. General purpose I/O pin.
36	GPIO_9/NFC1	29	NFC1 P0.09	NFC input Digital I/O	NFC antenna connection. General purpose I/O pin.
37	GPIO_1.00 TRACEDATA0	24	P1.00 TRACEDATA[0] SWO	Digital I/O	General purpose I/O pin. Trace buffer TRACE DATA[0] Serial wire output (SWO)
38	GPIO_18/RESET	16	P0.18 nRESET	Digital I/O	General purpose I/O pin. QSPI/CSN
39	SWDIO	26	SWDIO	Digital I/O	Serial Wire Debug I/O for debug and programming.
40	SWDCLK	27	SWDCLK	Digital input	Serial Wire Debug clock input for debug and programming.
41	GND	–	VSS	GND	Ground pin.
42	GND	–	VSS	GND	Ground pin.
43	GND	–	VSS	GND	Ground pin.
44	GND	–	VSS	GND	Ground pin.

45	GND	–	VSS	GND	Ground pin.
46	GND	–	VSS	GND	Ground pin.
47	GND	–	VSS	GND	Ground pin.
48	GND	–	VSS	GND	Ground pin.
49	GND	–	VSS	GND	Ground pin.
50	GND	–	VSS	GND	Ground pin.
51	NC	31	ANT	RF	NC. (Connected to antenna in FWM7BLZ23. Leave unconnected.)
52	GND	–	VSS	GND	Ground pin.
53	GND	–	VSS	GND	Ground pad.
54	GND	–	VSS	GND	Ground pad.
55	GND	–	VSS	GND	Ground pad.
56	GND	–	VSS	GND	Ground pad

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-7BLZ23
or
Contains FCC ID: SQK-7BLZ23
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 complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.
- Following information must be indicated on the host device of this module. Contains IC: 337L-7BLZ23

Note to users in the United States of America and Canada

Note to users in Canada

This device complies with ISED license-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.

European Community Compliance Statement

Note:
Hereby, Fujitsu component Limited, declares that this FWM7BLZ23 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: FWM7BLZ23
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

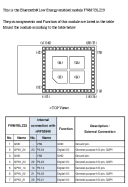
United Kingdom Compliance Statement

Note
Hereby, Fujitsu Component Limited, declares that this FWM7BLZ23 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: FWM7BLZ23

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

Documents / Resources

	FUJITSU FWM7BLZ23 Wireless Module [pdf] User Manual FWM7BLZ23 Wireless Module, FWM7BLZ23, Wireless Module, Module

References

- User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.