2AQPLLBEE5HY1MW Installation Manual

FCC ID of this product is as follows.

FCC ID: 2AQPLLBEE5HY1MW

IC No. of this product is as follows.

IC: 24569-LBEE5HY1MW

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1. Supply Voltage

Parameter		Min.	Тур.	Max.	Unit
Operating Temperature		-30	25	+85	°C
Supply Voltage	VBAT	3.2	3.3	4.8	V
	VIO ¹ 1.8V/3.3V	1.62	-	3.63	V

^{1:} VIO does not influence the RF characteristics.

2. Theory of Operation & Channel List

The following table lists the supported channels and operating modes. If the module is installed in hardware that supports an external dipole antenna, the italicized modes of operation must be disabled in firmware or software.

Frequency of Operation		Scan	Antenna		
				Trace	Dipole
2.4 GHz	11b/g/n - HT20	2412-2462MHz	Active	✓	✓
OI IZ	ВТ	2402-2480MHz	N/A	✓	



	BLE	2402-2480MHz	N/A	✓	
W52	11a/n/ac - (V)HT20	5180-5240MHz	Active	✓	1
	11n/ac - (V)HT40	5190-5230MHz	Active	✓	✓
	11ac - VHT80	5210MHz	Active	✓	
W53	11a/n/ac - (V)HT20	5260-5320MHz	Passive	✓	
	11n/ac - (V)HT40	5270-5310MHz	Passive	✓	
	11ac - VHT80	5290MHz	Passive	✓	
W56	11a/n/ac - (V)HT20	5500-5720MHz	Passive	✓	
	11n/ac - (V)HT40	5510-5710MHz	Passive	✓	
	11ac - VHT80	5530-5690MHz	Passive	✓	
W58	11a/n/ac - (V)HT20	5745-5825MHz	Active	✓	✓
	11n/ac - (V)HT40	5755-5795MHz	Active	✓	1
	11ac - VHT80	5775MHz	Active	√	

3. Antenna

Two types of antennas are support by this module:

- 1. The PCB trace antenna defined in the original Murata LBEE5HY1MW documentation
- 2. An external dipole antenna as described in this section.

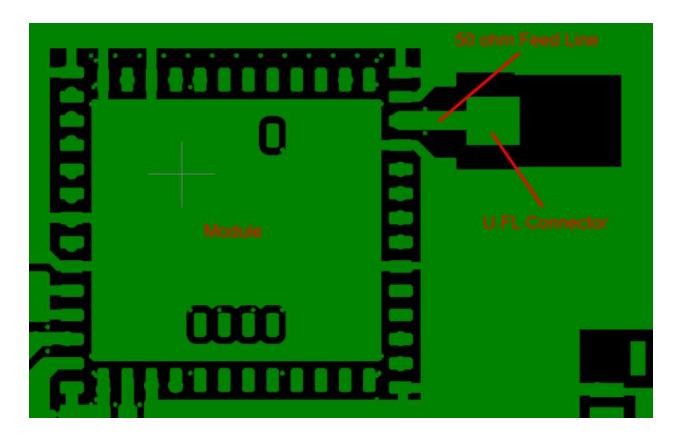
3.1 Antenna Characteristics

		Antenna
Antenna Typ	е	External dipole
Max Gain	2.4 GHz 5 GHz	



Antenna Connector	50 ohm U.FL
50 ohm feed line length	We test it at 1mm as representative

3.3 Antenna Trace Layout Guide



4. Regulatory Requirements

4.1 Labeling Guidelines

The following information must be indicated on the host device of this module or, if it cannot be described on the host device, must be listed in the host product manual.

Contains FCC ID: 2AQPLLBEE5HY1MW

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

Contains IC 24659-LBEE5HY1MW

This device complies with ISED Canada licence-exempt RSS standard(s). 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. that may cause undesired operation of the device.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

