

INTEGRATION INSTRUCTIONS

For BT/Wifi module

IC ID: 22379-BWM

FCC ID: 2AK2S-BWM

1. General requirements

1.1 General

The BT/Wifi module with IC ID: 22379-BWM and FCC ID: 2AK2S-BWM (henceforth “the module”) is only to be installed in Mirka Ltd. manufactured tools. OEM use only. The module shall not be for sale to 3rd party.

1.2 Identification

Identification information for the BT/Wifi module:

US related identifying information.
FCC ID: 2AK2S-BWM

Canada related identifying information.
IC ID: 22379-BWM
HVIN: 22379-BWM
PMN: 22379-BWM

1.3 Placement

The module is approved for portable use, this means it may be installed in such a way that it will be in close proximity (less than 20 cm) to the hands and wrists of the end user in normal use. However, the module may not be installed in such a way that it would be in close proximity (less than 20cm) to the head or torso of the end user during normal use of the host device.

1.4 Technical installation

For instructions on the technical installation of the module, block schematics, pin allocations, etc. see the module manufacturers datasheet.

2. Integration Instructions

2.1 General

The module shall not be for sale to 3rd party, and shall only be approved for use by Mirka Ltd in its own products.



2.2 List of applicable FCC rules

15C (15.247)

2.3 Specific operational use conditions

2.3.1 Absolute Maximum Ratings

Stresses above those listed in Absolute Maximum Ratings may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated under Recommended Operating Conditions is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

Symbol	Parameter	Min	Max	Unit
VDD33	Power supply voltage	-0.3	3.6	V
T _{STORE}	Storage temperature	-40	85	°C

Table 1: Absolute Maximum Ratings

2.3.2 Recommended Operating Conditions

Symbol	Parameter	Min	Typ	Max	Unit
VDD33	Power supply voltage	3.0	3.3	3.6	V
I _{VDD}	Current delivered by external power supply	0.5	—	—	A
T	Operating ambient temperature	-40	—	85	°C

Table 2: Recommended Operating Conditions

2.4 Limited module procedures

The module is approved for portable use, this means it may be installed in such a way that it will be in close proximity (less than 20 cm) to the hands and wrists of the end user in normal use. However, the module may not be installed in such a way that it would be in close proximity (less than 20cm) to the head or torso of the end user during normal use of the host device.

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2.5 Trace antenna designs

N/A



2.6 RF exposure considerations

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2.7 Antennas

On-board PCB antenna.

2.8 Label and compliance information

N/A

2.9 Information on test modes and additional testing requirements

N/A

2.10 Additional testing, Part 15 Subpart B disclaimer

N/A

3. Legal

The following text is also to be included in the host devices user manual:

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.

Caution: changes or modifications not expressly approved by Mirka Ltd. could void the user's authority to operate the equipment.

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.



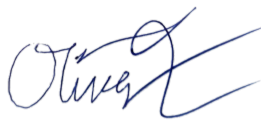
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

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.



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