



QUALIFIED ANTENNA TYPES FOR MGM111E

MGM111E is approved with a standard 2.14 dBi dipole antenna. Any antenna of the same type, similar in-band out of band characteristics and with the same or less gain can be used without reassessment. In case using antenna of a different type and/or higher gain reassessments and notification to the particular certification authority is required.

FCC

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 Silicon Labs could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter meets both portable and mobile limits as demonstrated in the RF Exposure Analysis and SAR test report. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

OEM Responsibilities to comply with FCC Regulations

The transmitter module must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

The minimum separation distance to human body is 10.5 mm. If the separation distance from the antenna to human body is 10.5 mm or more, SAR testing is not needed. In case the separation distance to human body is less than 10.5 mm, then OEM integrator is responsible to test the SAR with the end product assembly.

OEM integrator is responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that the above conditions cannot be met (for certain configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labeling

The MGM111 module is labeled with its own FCC ID. If the FCC ID 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. In that case, the final end product must be labeled in a visible area with the following:

“Contains Transmitter Module FCC ID: QOQMGM111”

or

“Contains FCC ID: QOQMGM111

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module or change RF related parameters in the user manual of the end product.

ISED

This radio transmitter (IC: 5123A-MGM111) has been approved by Industry Canada to operate with the embedded chip antenna and a standard 2.14 dBi dipole antenna. Other antenna types are strictly prohibited for use with this device without reassessment and permissive change.

This device complies with Industry Canada's license-exempt RSS standards. 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

RF Exposure Statement

Exception from routine SAR evaluation limits are given in RSS-102 Issue5. MGM111 meets the given requirements when the minimum separation distance to human body is less than equal to 25 mm. RF exposure or SAR evaluation is not required when the separation distance to human body is 25 mm or more.

OEM Responsibilities to comply with IC Regulations

The transmitter module must not be co-located or operating in conjunction with any other antenna or transmitter.

OEM integrator is responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that these conditions cannot be met (for certain configurations or co-location with another transmitter), then the IC authorization is no longer considered valid and the IC ID cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate IC authorization

End Product Labeling

The MGM111 module is labeled with its own FCC ID. If the FCC ID 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. In that case, the final end product must be labeled in a visible area with the following:

“Contains Transmitter Module IC: 5123A-BGM12LMA”

or

“Contains IC: 5123A-BGM12LMA”

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module or change RF related parameters in the user manual of the end product

CE

The Declaration of Conformity may be consulted at www.silabs.com.

Please note that every application using the BGM121 or BGM123 will need to perform the radio EMC tests on the end product according to EN 301 489-17.

The conducted test results can be inherited from the modules test report to the test report of the end product using BGM123 or BGM121. EN300328 radiated spurious emission test must be repeated with the end product assembly. Test documentation and software for the EN 300 328 radiated spurious emissions testing can be requested from the Silicon Labs support.

AU/NZ

The MGM111 has been certified to be used in Australia and New Zealand. In order to have a RCM mark on an end product integrating MGM111, a company must comply with a or b below.

- a) have a company presence in Australia.
- b) have a company/distributor/agent in Australia that will sponsor the importing of the end product