

# INSTALLATION GUIDE

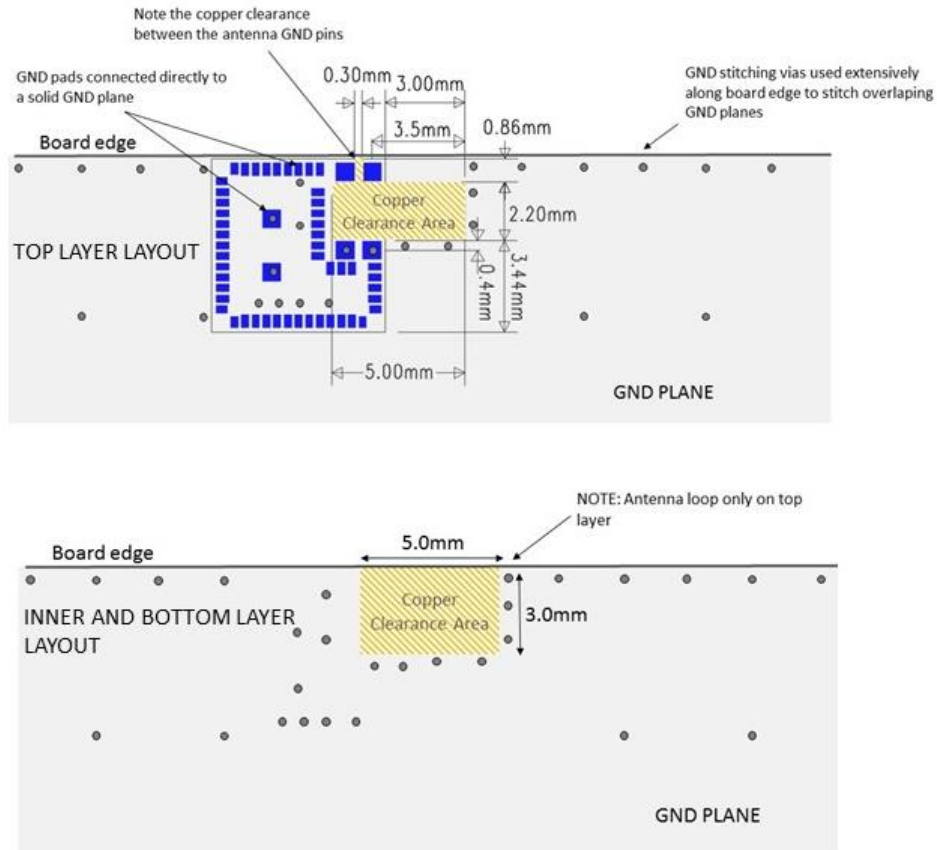


Figure 1: Layout guide for BGM121A/BGM123A

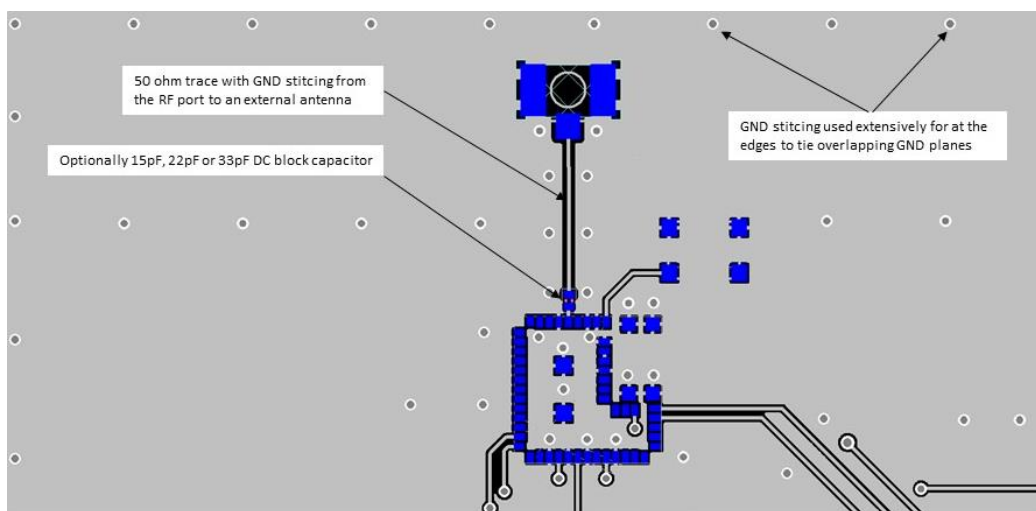


Figure 2: Layout guide for BGM121N/BGM123N

# Japan

BGM11S1A / BGM11S2A is certified in Japan with certification number TBD.

## IMPORTANT:

The module does is not labeled with Japan certification mark and ID because of the small physical size. Manufacturer who integrates a radio module in their host equipment must place the certification mark and certification number on the outside of the host equipment.

TBA

Figure 3: GITEKI mark and ID

The certification mark and certification number must be placed close to the text in the Japanese language which is provided below.

当該機器には電波法に基づく、技術基準適合証明等を受けた特定無線設備を装着している。

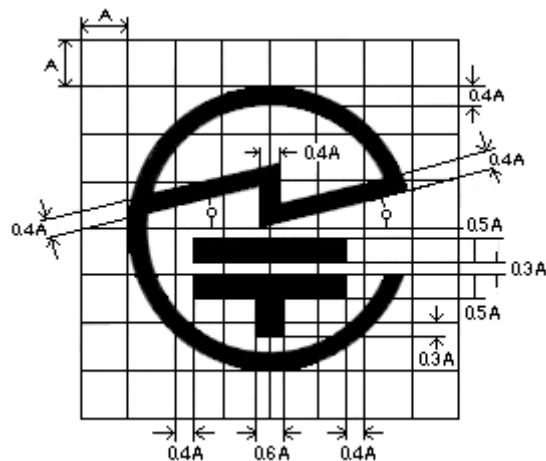


Figure 4:GITEKI mark

# 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.

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 BGM11S1A / BGM11S2A 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: QOQ11”**

or

**“Contains FCC ID: QOQ11”**

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-11) has been approved by Industry Canada to operate with the embedded chip antenna. Other antenna types are strictly prohibited for use with this device.

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**

BGM11S1A/BGM11S2A modules has been tested for worst case RF exposure. As demonstrated in the SAR test report, BGM121A/BGM123A can be mounted in touch with human body without further SAR evaluation.

## **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 BGM11S1A / BGM11S2A Module is labeled with its own IC ID. If the IC 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-11”**

or

**“Contains IC: 5123A-11”**

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](http://www.silabs.com).

Please note that every application using the BGM11S1A or BGM11S2A 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 BGM11S1A or BGM11S2A. 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.