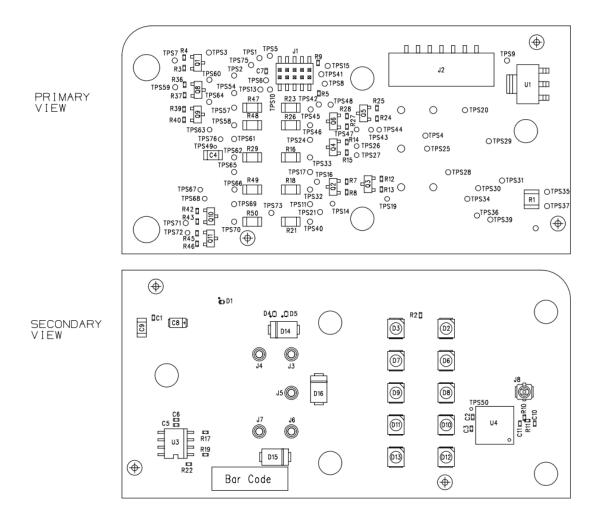


# **INSTALLATION GUIDE**

Radio board is to be installed in a Crown designed and approved enclosure. It is only to be attached to a Crown designed and approved module that contains the proper settings. Transmit setting are not adjustable by the user. Radio board proportion of the module contains the Silicon Labs BGM121N256V2 BLUETOOTH 4.2 transceiver module (U4). Module is approved with a 2.14 dBi or less antenna. Radio board is to not be modified in any way. Antenna Connector (J8) is only used for development and not to be connected to or utilized in any way.



## **FCC**

This device complies with Part15 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 Crown Equipment Corporation 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.

### **OME 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 the accordance with FCC multi-transmitter product procedures.

Each new host will require reassessment of radiated spurious emissions and permissive change to the certification.

For BGM121N/BGM123N the minimum separation distance to human body is 6mm. If the separation distance from the antenna to the human body is 6mm or more, SAR testing is not needed. In case the separation distance to the human body is less than 6mm. than 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 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 BGM121 module is not labeled with its own FCC ID because of its small physical size. The final end product must be labeled in a visible area with the following:

"Contains Transmitter Module FCC ID: YGP4000-01

# **ISEDC**

This radio transmitter (IC: 9016A-HD4000A) 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.

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.

#### **RF Exposure Statement**

Exception from routine SAR evaluation limits are given in RSS-102 Issue5. BGM121 and BGM123 meets the given requirements when the minimum separation distance to human body is less than equal to 15mm. RF exposure or SAR evaluation is not required when the separation distance is 15 mm or more.

BGM121A/BGM123A 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.

If the separation distance of BGM121N or BGM123N is less than 15 mm the OEM integrator is responsible for evaluating the SAR.

### **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.

radiated emission must be tested with each new host product and ISEDC must be notified with a Class 4 Permissive Change.

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 BGM121/BGM123 module is not labeled with the IC ID because of its small physical size. The final end product must be labeled in a visible area with the following:

"Contains Transmitter Module IC: 9016A-H4000A"

Or

"Contains IC: IC: 9016A-HD4000A"

Or

"Contains FCC ID: YGP4000-01"

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