

## **Wireless/Light Bar Controller**

### **Integration Instructions – User Manual**

(Ref. KDB 996369 D03 OEM Manual v01)

**FCC ID: DBDWLBC6100; IC: 20318-WLBC6100, HVIN 2350600**

#### **§2.2 List of applicable FCC rules:**

The Wireless/Light Bar Controller Module (Wireless/LBC, WLBC) complies with the following **FCC CFR47 Part 15 Subpart C** regulations:

- §15.203      Antenna Requirement
- §15.204      External radio frequency power amplifiers and antenna modifications.
- §15.212      Modular Transmitters
- §15.207      Conducted Limits
- §15.247      Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz (digitally modulated)

#### **FCC CFR47 Part 15 Subpart A—General**

- §15.19      Labeling requirements
- §15.21      Information to user

#### **§2.3 Operational Use Conditions:**

The WLBC module has been approved for use in the US, Canada, Australia/New Zealand, and Europe.

Changes or modifications to the module could void the user's authority to operate the module.

The host product operating conditions must be such that there is a minimum separation distance of 20 cm between the antenna and nearby persons.

#### **§2.4 Limited Module procedures:**

The WLBC has full modular approval.

#### **§2.5 Trace antenna designs:**

The WLBC does not require Micro-Strip antennas or traces on the host device. All traces and antennas are contained on the WLBC PCB.

## §2.6 RF exposure considerations:

The host product operating conditions must be such that there is a minimum separation distance of 20 cm between the antenna radiating structures and nearby persons. The host manufacturer is obligated to confirm the use conditions of the host product to ensure that the distance specified in the instructions is met. In this case the host product is classified as either a mobile device or a fixed device for RF exposure purposes. Maximum EIRP of the module is 8.8 dBm, below the 20 mW low power transmitter output exemption for RF Exposure.

The following statement must be included as a **CAUTION** statement in manuals and OEM products to alert end users of FCC RF Exposure compliance:

*To satisfy FCC RF Exposure requirements for mobile and base station transmission devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.*

## §2.7 Antennas:

The WLBC uses a non-detachable **Printed IFA** (Printed Inverted F Antenna) on the module, thus no antenna other than that furnished by the responsible party shall be used with the device.

## §2.8 Label and compliance information:

Host product manufacturer must provide a physical label stating “**Contains FCC ID: DBDWLBC6100**” and “**IC: 20318-WLBC6100**” in a visible location on the finished product.

The module host shall bear the following statement in a conspicuous location on the host and in the 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.*

*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.*

## **§2.9 Information on test modes and additional testing requirements:**

Host manufacturer should confirm proper operation using a known good module to link to the installed module. Test procedure for the host will require a particular setting to address the good module and proper operational response will be checked.

## **§2.10 Additional testing, Part 15 Subpart B disclaimer:**

The modular transmitter is **only** FCC authorized for the specific rule parts (i.e., FCC transmitter rules, i.e., §15.207, §15.247) listed on the grant, and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification, such as Part 15 Subpart B, Unintentional Radiators. Compliance should be checked with all transmitters operating.