

(2) Specification

Categories		Details
Model Name		LCWB-004
WIFI	Range of Frequency	2400MHz ~ 2483.5MHz
	Channel	14EA
	Transmission Output	17 dBm (802.11b)
		15 dBm (802.11g)
		14 dBm (802.11n)
	Reception sensitivity	-88 dBm (802.11b)
		-75 dBm (802.11g)
-72 dBm (802.11n)		
Modulation	802.11b : DQPSK, DBPSK, CK 802.11g/n : OFDM/64-QAM,16-QAM, QPSK, BPSK	
BLE	Range of Frequency	2402MHz ~ 2480MHz
	Channel	40EA
	Transmission Output	4.5 dBm
	Reception sensitivity	-95 dBm
Antenna		PCB Pattern Antenna
Dimension		L x W x H : 48 x 20 x 11.2 (typical) mm
Power		5V±0.5V / 12V±1.2V

2. FCC Statement

FCC Part 15.19 Statements:	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.
FCC Part 15.105 statement(Class B)	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.
FCC Part 15.21 statement	Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device must not be co-located or operating in conjunction with any other antenna or transmitter.
Responsible Party Information	<p style="text-align: center;">Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information</p> <p style="text-align: center;">Responsible Party –U.S. Contact Information LG Electronics USA1000 Sylvan Avenue Englewood Cliffs New Jersey, United States, 07632</p>
Modular Approval Statement	<p>Regulatory notice to host manufacturer according to KDB 996369 D03 OEM Manual</p> <p>This module has been granted modular approval as below listed FCC rule parts. -FCC Rule parts 15C(15.247)</p> <p>Summarize the specific operational use conditions -The OEM integrator should use equivalent antennas which is the same type and equal or less gain then an antenna listed below this instruction manual.</p> <p>RF exposure considerations -The module has been certified for integration into products only by OEM integrators under the following condition: -The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times. -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. -Mobile use As long as the three conditions above are met, further transmitter testing will not be required. OEM integrators should provide the minimum separation distance to end users in their end-product manuals.</p> <p>Antennas list</p>

This module is certified with the following integrated antenna.
-. Max. Antenna gain: 1.72 dBi / Ant. Type: PCB Printed Antenna

Any new antenna type, higher gain than listed antenna should be met the requirements of FCC rule 15.203 and 2.1043 as permissive change procedure.

End Product Labeling

The module is labeled with its own FCC ID and IC Certification Number. If the FCC ID and IC Certification Number are 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 FCC ID: BEJ-LCWB004

“Contains IC: 2703H-LCWB004

Information on test modes and additional testing requirements

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

Additional testing, Part 15 Subpart B disclaimer

-The final host product also requires Part 15 subpart B compliance testing with the modular transmitter installed to be properly authorized for operation as a Part 15 digital device.

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3. ISED Statement

Licensed-exempt Statement	<p><i>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:</i></p> <ol style="list-style-type: none"><i>1. This device may not cause interference.</i><i>2. This device must accept any interference, including interference that may cause undesired operation of the device.</i> <p><i>Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :</i></p> <ol style="list-style-type: none"><i>(1) l'appareil ne doit pas produire de brouillage, et</i><i>(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.</i>
RF Exposure Statement (MPE)	<p><i>The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times.</i></p> <p><i>l'exposition aux RF L'antenne (ou les antennes) doit être installée de façon à maintenir à tout instant une distance minimum de au moins 20 cm entre la source de radiation (l'antenne) et toute personne physique.</i></p>
End Product Labeling	<p><i>Étiquetage du produit final (IC)</i></p> <p><i>Le module est étiqueté avec sa propre identification FCC et son propre numéro de certification IC. Si l'identification FCC et le numéro de certification IC ne sont pas visibles lorsque le module est installé à l'intérieur d'un autre dispositif, la partie externe du dispositif dans lequel le module est installé devra également présenter une étiquette faisant référence au module inclus. Dans ce cas, le produit final devra être étiqueté sur une zone visible avec les informations suivantes :</i></p> <p><i>Contient module émetteur IC : 2703H-LCWB004</i></p>

4. Customer Support

(1) Tel : 1588-6400

[Certification Mark / Certification Number]

KC : R-C-LGE-LCWB-004

FCC ID : BEJ-LCWB004

IC : 2703N-LCWB004

CE : Marking (min. 5mm)



Company : Ohsung Electronics

Production Date : 2023.

Manufacturer/Country : Ohsung Electronics/KOREA