

User Information

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1. Overview and Specification

(1)Overview

This product is a Wi-SUN (Wireless Smart Utility Network) communication module that uses the sub-GHz (900MHz) band. It operates through connection and operation with a separate controller product.



(2)Specification

Items	Description
Model Name	CBOX-240816
Operating Frequency	922 MHz ~ 926.8 MHz
Wireless specification	IEEE 802.15.4g
RF Power	13dBm±3dB
Input Voltage	DC 5V
Operating Temperature	-20°C ~ +85°C

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 15.21 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.
Modular Approval Statement	Regulatory notice to host manufacturer according to KDB 996369 D03 OEM Manual This module has been granted modular approval as below listed FCC rule parts. -FCC Rule parts 15C(15.247) Summarize the specific operational use conditions -The OEM integrator should use equivalent antennas which is the same type and equal or less gain than an antenna listed below this instruction manual. 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. Limited module procedures (Only limited modular approval) Single module Antennas list This module is certified with the following two antenna. 1)Max. Antenna gain: 0.23 dBi / Ant. Type: Dipole Antenna 2)Max. Antenna gain: -0.25 dBi / Ant. Type: Dipole Antenna Both antennas used in this module are not end-user accessible. Any new antenna type or antenna with higher gain than listed antenna must comply with FCC rules 15.203 and 2.1043 under the permissive change procedure. such antennas must not be accessible to the end-user. 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: 2B03L-CBOX-240816 - Contains IC: 2703N-CBOX240816 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.

Note EMI Considerations

Note that a host manufacture is recommended to use D04 Module Integration Guide recommending as "best practice" RF design engineering testing and evaluation in case non-linear interactions generate additional non-compliant limits due to module placement to host components or properties

For standalone mode, reference the guidance in D04 Module Integration Guide and for simultaneous mode⁷; see D02 Module Q&A Question 12, which permits the host manufacturer to confirm compliance.

How to make changes

Since only Grantees are permitted to make permissive changes, when the module will be used differently than granted, please contact the module manufacture on below contact information.

-. Contact information: yongduk.kwon@lge.com/ Tel: +82-10-4752-3957

3. ISED Statement

Licensed-exempt Statement	<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> <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> <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> <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)	<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> <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>
End Product Labeling	<i>Étiquetage du produit final (IC)</i> <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> - Contient module émetteur IC : 2703N-CBOX240816
RSS-Gen 6.8 Transmitter antenna	<i>This radio transmitter [2703N-CBOX240816] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.</i> <i>[Antenna List]</i> <i>- Antenna type: Dipole antenna / Antenna gain: 0.23 dBi</i> <i>- Antenna type: Dipole antenna / Antenna gain: -0.25 dBi</i> <i>Le présent émetteur radio [2703N-CBOX240816] a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.</i> <i>[Liste des antennes]</i> <i>Type d'antenne : antenne dipôle / Gain d'antenne : 0,23 dBi</i> <i>Type d'antenne : antenne dipôle / Gain d'antenne : -0,25 dBi</i>

4. Customer Support

(1) Tel : 1544-8777

[Certification Mark / Certification Number]

KC : R-C-LGE-CBOX-240816

FCC ID : 2BO3L-CBOX-240816

IC : 2703N-CBOX240816



Company : LG Electronics

Production Date : 2025.

Manufacturer/Country : LG Electronics/KOREA