LumenRadio

CRMX™

200-1921 CORE USB dongle for commissioning

Revision: PA1 DRAFT - February 3, 2015

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The CORE USB dongle from LumenRadio provides a commissioning interface for a CORE mesh network that can be quickly and easily connected to a host computer.
For Linux and MAC users no extra drivers are needed.

Fetures

- Easy to use commissioning tool for CORE mesh networks no radio knowledge needed.
- USB 2.0 compliant interface
- Integrated antenna
- Reference code and library available for software developers

Electrical characteristics

Measured at 25°C. Limits apply over entire frequency range 2405-2480MHz (Channel 11-26).

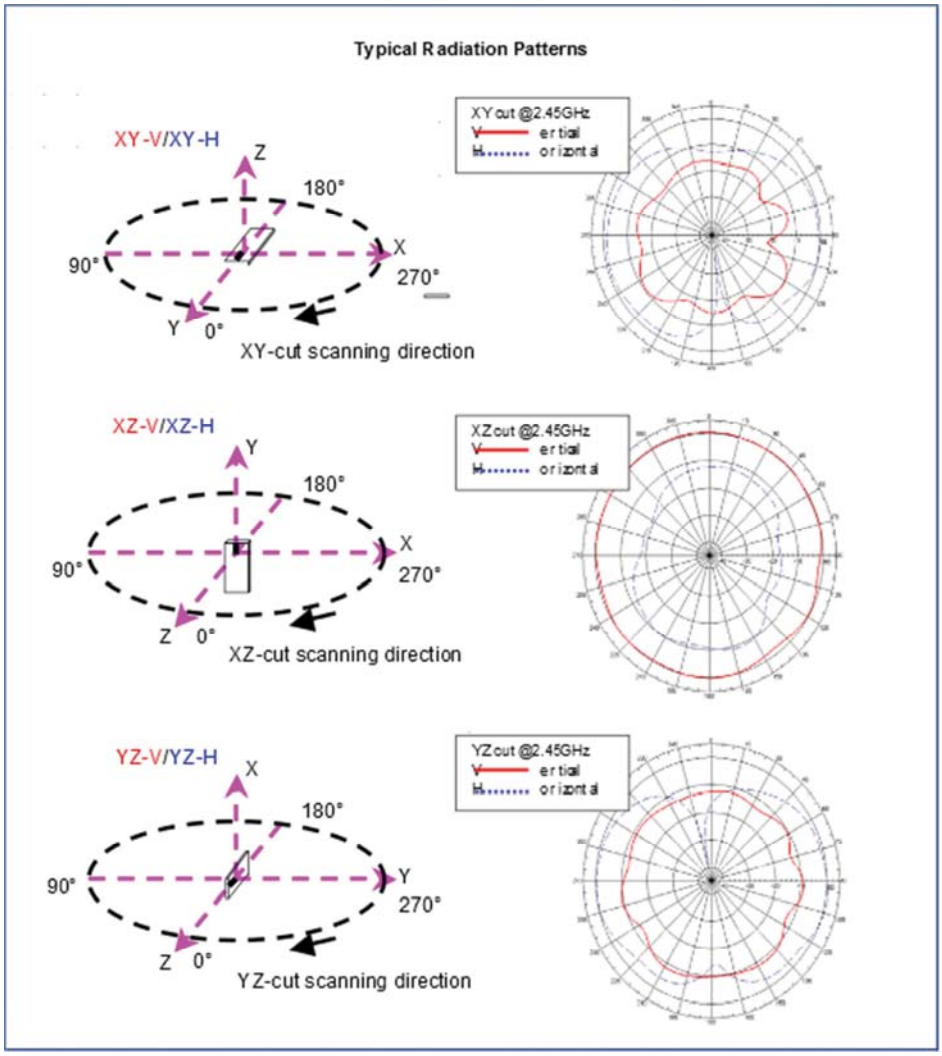
Parameter	Symbol	MIN	TYP	MAX	Unit
Peak current consumption	I_{PEAK}		60	80	mA
Average current consumption	I_{AVG}		35	40	mA

RF characteristics

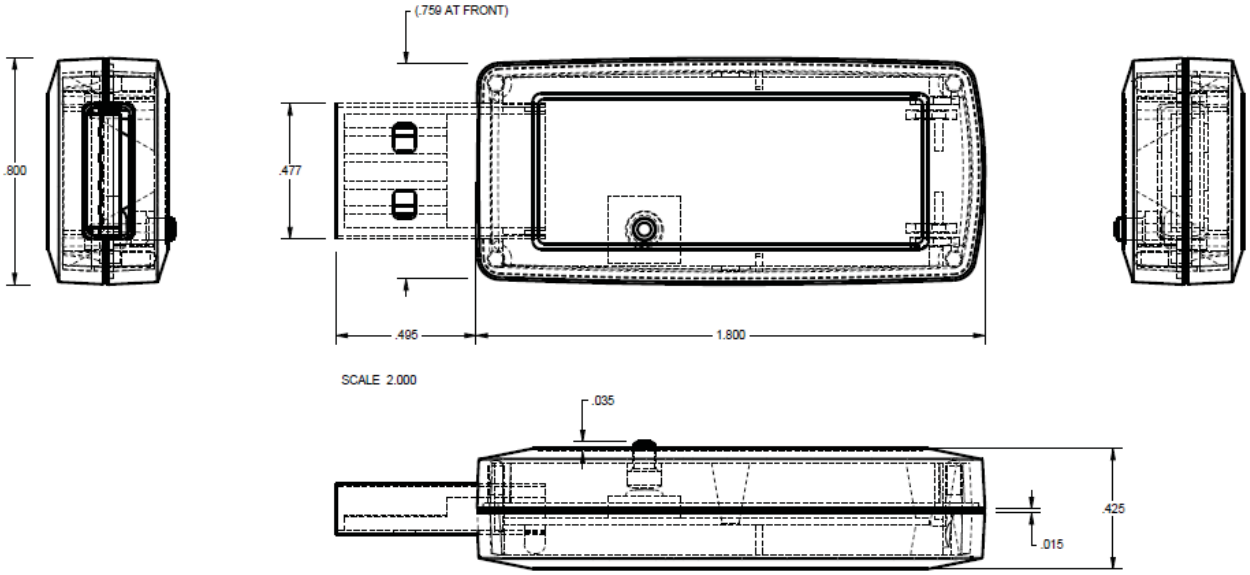
Measured at 25°C. Limits apply over entire frequency range 2405-2480MHz (Channel 11-26)

Parameter	Symbol	MIN	TYP	MAX	Unit
Receiver sensitivity, PER = 1%	RX_{SENS}		-97		dBm
Receiver saturation (maximum input level) , PER = 1%	RX_{SAT}			-5	dBm
Transmitter max output power	TX_{POWER}	6.0	6.5	7.0	dBm
RF frequency range		2405		2480	MHz

Internal antenna radiation pattern



Mechanical dimensions



Compliance information

FCC information

FCC Information to User

This product does not contain any user serviceable components. Any product changes or modifications will invalidate all applicable regulatory certifications and approvals

FCC Guidelines for Human Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Declaration of Conformity

We LumenRadio AB Svangatan2B, 41668 Gothenburg, Sweden, declare under our sole responsibility that 200-1921, CORE USB DONGLE, complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

FCC Radio Frequency Interference Warnings & Instructions

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 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 methods:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an electrical outlet on a circuit different from that which the radio receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Modifications made to the product, unless expressly approved by LumenRadio AB., could void the user's right to operate the equipment.

CE

200-1921, CORE USB DONGLE, complies with the Essential Requirements of RED (Radio Equipment Directive) of the European Union (2014/53/EU). CORE meets the ETSI EN 300 328 V1.8.1 and ETSI EN 300 328 V1.9.1 conformance standards for radio performance.

Canada Statement

This device complies with Industry Canada's licence-exempt RSSs. 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. 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 : (1) l'appareil ne doit pas produire de brouillage; (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance. Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur.

FCC Information to User

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.