FRAMERY CONTROL UNIT

USER MANUAL

Framey

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Info framery.com

GENERAL NOTES

PRODUCT IS ONLY FOR FRAMERY PRODUCT USE

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Version control:

9.2.2021	v 0.1 (DRAFT)	Pirjo Laurila

Contents

1. Preface

This instruction manual describes the use of Framery Control Unit. It is exclusively for use in Framery's phone booths, like Framey One, and other future Framery meeting space products, pods.

The user instructions contain the following information:
General information about the purpose and content of the instructions
Intended use and use conditions
Compliance statements with list the FCC rules that are applicable to the transmitter.
RF exposure conditions
Advice on further testing needed for the host and instructions to end user
A list of antennas included in the application
Assembly instructions of Control Unit

2. Intended use and use conditions

The Framery Control Unit model 9000456-01A is intended for use in Framery One pod for short term indoor commercial and household use.

Warning: WARNING –To reduce the risk of burns, fire, electric shock, or injury to persons:

- Use this product only for its intended use as described in the user instructions.
- Do not use attachments not recommended by the manufacturer.

2.1 Non-conventional use

Any use or maintenance of the product that is not specifically allowed in the installation, maintenance, troubleshooting or user instructions is prohibited, including the following:

- Installation, maintenance or disassembly of the Control Unit without reading and understanding the instructions for those actions
- Use of the Control Unit for any other host except Framery One
- Making alterations to the Control Unit
- Using the Contorl Unit in spite of obvious defects or damage
- Using the Contorl Unit or host product outdoors or in conditions where the temperature or air quality is not safe

2.2 Ambient conditions for use

The host product is intended to be used in the following conditions:

- Ambient temperature: +15°C ... +30°C (59°F ... 86°F)
- Humidity: max. 50%
- Sufficient air quality surrounding the product

3. Regulatory conditions for use

- According to definition on FCC 2.1093 this is a portable device and the following conditions must be met:

- 1. This Approval is applicable for a portable device. The antenna installation and operating configurations of this transmitter, including any applicable source-based timeaveraging duty factor, antenna gain and cable loss must satisfy Requirements of 2.1093 for general population/uncontrolled exposures.
- 2. The EUT is a portable device and may not transmit simultaneously with any other antenna or transmitter without shown to be compliant with requirements on 2.1093 and other applicable sections of FCC Requirements.
- 3. This device contains LTE and BLE modules and must not transmit simultaneously with any other antenna or transmitter.
- 4. The host end product must include a user manual that clearly defines operating requirements and conditions that must be observed to ensure compliance with current FCC RF exposure guidelines.
- 5. This transmitter has been tested and compliant with RF exposure for general public use limb and body exposure limits. Integration should be such the end user body is prevented from approaching the Control unit closer than 10 mm. Limb contact on Contorl Unit display is allowed. This information is needed for the host product manufacturer to provide to end users in their end-product manuals.
- 6. To comply with FCC regulations limiting both maximum RF output power and human exposure to RF radiation, maximum antenna gain (including cable loss) must not exceed:

Operating Band	FCC Max Antenna Gain (dBi)	IC Max Antenna Gain（dBi）
GSM850	8.60	7.44
GSM1900	10.19	10.19
WCDMA BAND II	8.00	8.00
WCDMA BAND IV	5.00	5.00
WCDMA BAND V	9.42	8.26
LTE BAND 2	8.00	8.00
LTE BAND 4	5.00	5.00
LTE BAND 5	9.41	8.25
LTE BAND 7	8.00	8.00
LTE BAND 12	8.70	7.76
LTE BAND 13	9.16	8.09
LTE BAND 25	8.00	8.00
LTE BAND 26(814-824)	9.36	NA
LTE BAND 26(824-849)	9.41	8.25
LTE BAND 38	8.00	8.00
LTE BAND 41	8.00	8.00
BLE	5.00	5.00

3.1 Compliance statements FCC

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.

CAUTION: any changes or modifications not expressly approved by Framery Oy could void the user's authority to operate the equipment.

The Control Unit is a portable device per FCC 2.093. The Control Unit is for the use in Framery One Phone Booth only (final host product) and is not allowed to be integrated into any other device. The final host product requires Part 15 Subpart B compliance testing with the modular transmitter installed.

3.2 Compliance markings (labeling) FCC

For this device, OEM integrators must be provided with labelling instructions of finished products. Please refer to KDB784748 D01 v07, section 8. Page 6/7 last two paragraphs:
A certified device has the option to use a permanently affixed label, or an electronic label. For a permanently affixed label, the devace must be labeled with an FCC ID - Section 2.926 (see 2.2 Certification (labeling requirements) above). The OEM manual must provide clear instructions explaining to the OEM the labeling requirements, options and OEM user manual instructions that are required (see next paragraph).

The Control Unit has electronic label information as follows: FCC ID: 2AX4J9000456 containing FCC ID: 2AX4J201906EG21G.

This is available from Control Unit main menu –> Compliance information. It is available for the end user when the Control Unit is integrated to the finished product. This guidance on how to access to the electronic labelling information on Control Unit must be presented to the end user in the final product (Framery One) user manual.

According KDB 784748 D02 when e-labeling is used, a physical temporary label is also required on the product, or a label on the packaging, at the time of importation, marketing, and sales. The physical label can be a summary version of the required regulatory information, such that the product can be identified as complying with the FCC's equipment authorization requirements. The information may simply be the FCC ID for products subject to certification.

Products imported that are already packaged for sale and have a physical temporary label will satisfy this requirement. However, for products imported in bulk and not packaged individually, it is acceptable to use a temporary removable adhesive label on the product, or temporary or permanent labels on the shipping packaging or protective bags. Any removable adhesive label shall be of a type intended to survive normal shipping and handling.

3.3 Advice on Further Testing of the Host and Instructions to the End User FCC

The integrator has to be aware not to provide information to the end user regarding how to install or remove this device in the user's manual of the end product which integrates this device. The end user manual shall include all required regulatory information/warning as show in this manual.

The final host / device combination may also need to be evaluated against the FCC Part 15B criteria for unintentional radiators in order to be properly authorized for operation as a Part 15 digital device.

The user's manual or instruction manual for an intentional or unintentional radiator shall give the following statement and caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

To ensure compliance with all non-transmitter functions the host manufacturer is responsible for ensuring compliance with the device installed and fully operational. For example, if a host was previously authorized as an unintentional radiator under the Supplier's Declaration of Conformity

procedure without a transmitter certified device and a device is added, the host manufacturer is responsible for ensuring that the after the device is installed and operational the host continues to be compliant with the Part 15B unintentional radiator requirements.

In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

3.4 Compliance statements and markings IC

IRSS-GEN
"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." or

"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 host product shall be properly labeled to identify the device within the host product.
The Innovation, Science and Economic Development Canada certification label of a device shall be clearly visible at all times when installed in the host product
Le produit hôte doit être correctement étiqueté pour identifier les modules dans le produit hôte.
L'étiquette de certification d'Innovation, Sciences et Développement économique Canada d'un module doit être clairement visible en tout temps lorsqu'il est installédans le produit hôte;

Devices with an integrated display screen may have the required label information represented electronically in an e-label instead of on a physical label or nameplate.

Les dispositifs avec un écran d'affichage intégré peuvent avoir les informations d'étiquette requises représentées électroniquement dans une étiquette électronique plutôt que sur une étiquette physique ou une plaque signalétique.

The Control Unit has electric label information as follows:

Framery Control Unit
Model #9000456-01A
IC: 26702-9000456 containing IC: 26702-201906EG21G
IC: 26702-9000456 contient IC: 26702-201906EG21G

This is available from Control Unit main menu –> Compliance information. It is available for the end user when the Control Unit is integrated to the finished product. This guidance on how to access to the electronic labelling information on Control Unit must be presented to the end user in the final product user manual.

L'unité de contrôle a des informations d'étiquette électrique comme suit:

Framery Control Unit
Model #9000456-01A

IC: 26702-9000456 containing IC: 26702-201906EG21G
IC: 26702-9000456 contient IC: 26702-201906EG21G

Ceci est disponible dans le menu principal de l'unité de contrôle -> Informations de conformité. Ceci est disponible pour l'utilisateur final lorsque l'unité de contrôle est intégrée au produit fini. Ce guide sur la façon d'accéder aux informations d'étiquetage électronique sur l'unité de contrôle doit être présenté à l'utilisateur final dans le manuel d'utilisation du produit final.

4. List of antennas

Framery Control Unit has three antennas, which has been integrated to PWB.
First antenna is LTE Mains antenna, second LTE diversity antenna and third BLE antenna.

LTE antenna operation frequency: 824 – 849MHz (GSM 850)
1850 – 1910MHz (GSM 1900)
1850 – 1910MHz (WCDMA 2)
1710 – 1755MHz (WCDMA 4)
824 – 849MHz (WCDMA 5)
1850 – 1910MHz (LTE 2)
1710 – 1755MHz (LTE 4)
824 – 849MHz (LTE 5)
699 – 716MHz (LTE 7)
777 – 878MHz (LTE 12)
788 – 798MHz (LTE 13)
1850 – 1915MHz (LTE 25)
814 – 849MHz (LTE 26)
2496 – 2690MHz (LTE 41)

Bluetooth antenna operation frequency: 2400 – 2483.5MHz

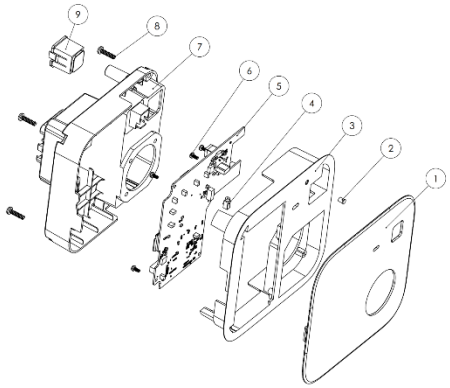
LTE Main antenna type: Omnidirectional antenna, Maximum antenna gain [G]: +5dBi

LTE Main antenna type: Omnidirectional antenna, Maximum antenna gain [G]: +5dBi

Bluetooth antenna type: Omnidirectional antenna, Maximum antenna gain [G]: +5dBi

5. Assembly instructions

To assemble the Control Unit using prefabricated parts follow the guidance below. Control Unit prefabricated parts are listed below:

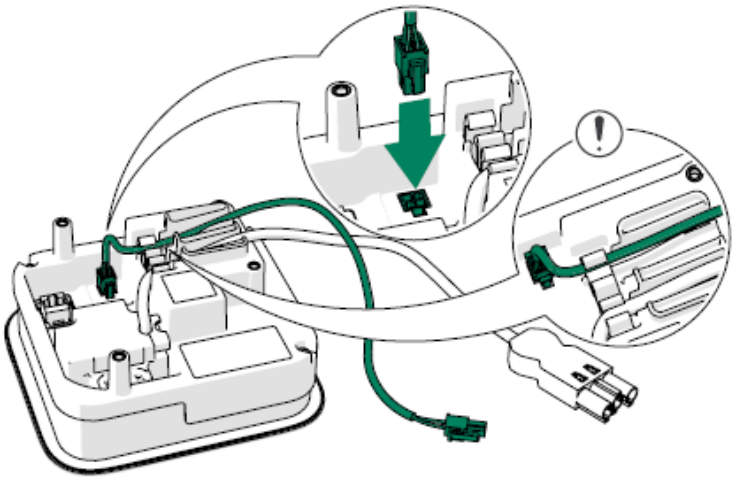


1. Install printed circuit board (5) to display frame (3) using 6 screws (6).
2. Install back frame (7) to display frame (3) with 3 screws (8).

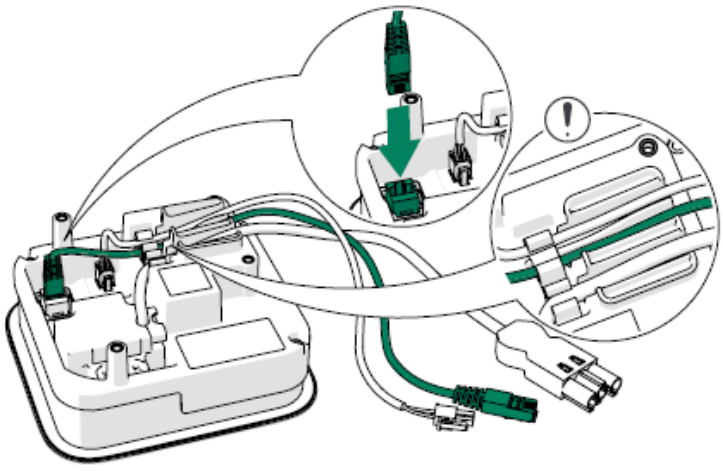
To assemble the Control Unit to the host product Framery One follow the guidance below.

This information is available on Framery One Installation Instructions.

1.



2.



3.