

SOLUM NEWTON EL090MBCX0 Hybrid Remocon Controller Instruction Manual

Home » SOLUM » SOLUM NEWTON EL090MBCX0 Hybrid Remocon Controller Instruction Manual





Contents

- 1 General Outline
 - 1.1 Overview
 - 1.2 Features
 - 1.3 Application
 - 1.4 Physical Dimension
 - 1.5 Exploded View of RC
- 2 Specifications
 - 2.1 Product
 - 2.2 Radio (RF)
 - 2.3 Label Specification
 - 2.4 Traceability
- **3 Cautions for Treatment**
 - 3.1 Usage Environment
 - 3.2 Storage and Use
 - 3.3 ISED Information to
- 4 User Scenario for Buttons
- 5 Documents / Resources
- **6 Related Posts**

General Outline

Overview

NEWTON S-Label product is part of SoluM S-Label (Electronic Shelf Label) System, also consisting of NEWTON S-Label Gateway (S-Gate), and Remote Controller (S-RC). The remote control has three buttons. The center button forces the ESL Tag to wake up or has a refresh function. The left and right buttons each have a function of turning over the page of the ESL Tag.

Available only for M2, M3 Tag types. Remote Controller consists of RF Power Amp IC, Active NFC IC, 2.4GHz RF SoC, and Tact Switch.

Features

LED: status Indicator (Magenta, Yellow, RED) Operating on 13.56MHz Active NFC Comply with the IEEE802.15.4-2006(250kbps) standard High-power Transmission

Outline Dimension: 46.75mm X 106.21mm X 20.91mm RoHS compliant

Application

Retail industry with the electronic display and platform, solutions, and services Intelligently communicating, managing, and optimizing price and product information's.

* FCC Information to User

WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

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.

NOTE: 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.

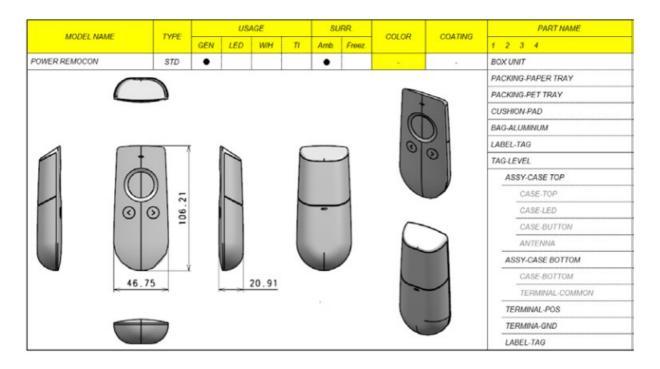
IMPORTANT NOTE: FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 0.5 centimeters between the radiator and your body.

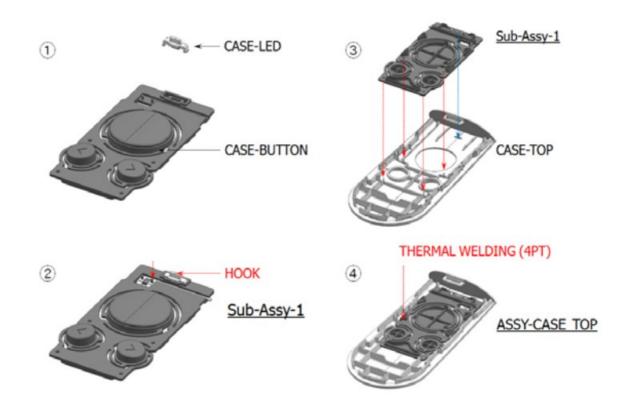
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Physical Dimension

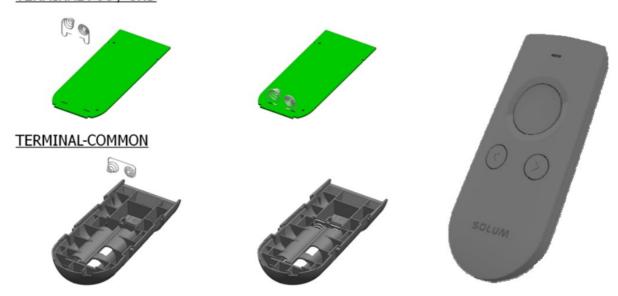


Exploded View of RC

ASSY-CASE TOP



TERMINAL-POS / GND



Specifications

Product

Item	Description
Size	46.75mm X 106.21mm X 20.91mm
Battery	LR03 AAA Alkaline Battery (1.5V, 2ea) Walking Voltage : 2.2 ~ 3.3 Vdc (Condition : In active status)
Function	Wakeup / Page Selection
Communication	2.405GHz IEEE 802.15.4 & Active NFC
Wakeup Sensitivity	0.01 ~ 10cm or more.

Radio (RF)

Items	Parameter	Spec.			Unit	Condition	
		Min	Тур.	Max	Unit	Condition	
тх	Transmit Power	5		10.	dBm	IEEE 802.15.4	
	Error Vector Magnitude	_	10	50	%	When measured for 100 chips	
	Tx Current	_	_	200	mA	Total current at max Tx power	

• Test Channel: 2405MHz

• The contents in the grayed cells are not necessary to manage by Cpk.

• Operation Temp. : 0 ~ 40°C

Label Specification

Back Label: 28mmX12mm

Label Color: Silver



Product information is indicated in a printed sticker label. The information consists of Model (model name), MFD(manufacturing date), S/N(serial number)
CE & KC certification mark, FCC ID and Manufacturer.

1. FCC ID: 2AFWN-EL090MBCX0

2. IC: 22800-EL090MBCX0

3. Model Name: EL090MBCX0

4. MFD: (month).(date).(year) ex) APR.17.2017

5. S/N: Daily Production Quantity (6 digits) & Serial Number Information & Bar-code (hexadecimal 10 digits)

Traceability

Maker: SOLUM Co.,Ltd



HQ: KOREA 357 Guseong-ro, Yongin-si, Gyeonggi-do 16914

Cautions for Treatment

Provisions should be made to protect against any damage to the product caused by improper handling. The purchaser assumes any responsibility for damage to the product caused by improper handling.

This RF device operates on the 2.4GHz frequency band and can produce radio interference. The device, therefore, may not be used for applications where safety of human lives is concerned.

Usage Environment

Take extra cautions when using this RF device in the vicinity of other electronic devices and appliances. Most electronic devices and appliances use electromagnetic waves.

Electromagnetic waves emitted by this RF device can affect other electronic devices and appliances. If using the device in an explosion hazard area, follow all safety regulations, instructions, and signals.

Storage and Use

- Moisture and liquids can damage internal parts and circuit boards if allowed to enter into the device itself.
- Do not place or store the product on a sloped surface. The product may slide and fall off the surface and damaged.

- Use the product in temperatures ranging from 0 °C to 40°C. Parts and circuits may be damaged if used or stored under temperature extremes.
- · Avoid areas with strong magnetism or subject to magnetism.
- Contact between the device and a magnetic object can lead to malfunctions.
- Do not place the product near heat-producing kitchen appliances like a stove or a microwave or in the vicinity of highly pressurized containers.
- External impact to the product, such as from being dropped, can damage the product.
- Twisting and bending the product can damage the exterior casing and the internal components.
- If this product operates abnormally in eliminating battery or replacing battery, you should discharge it by contacting battery terminal (+) and (-).

This product uses 2.4GHz frequency band for wireless communication network.

Radio communications can be limited or affected by other applications which share same frequency band, such as WiFi, Bluetooth, ZigBee, etc.

Frequent use of communication can reduce battery life time.

Hereby, SOLUM CO.,LTD. declares that this EL090MBCX0 is in compliance with the essential requirements and other relevant provisions of directive 1999/5/EC.

ISED Information to User

This device complies with Industry Canada licensee-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) the device may not cause interference, and (2) the user of the device must accept any interference received, even if the interference is likely to compromise operation. Caution: Any changes or medication's not expressly approved by the manufacturer may void the user's authority to operate the equipment. exposure to radio frequency radiation. To comply with IC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons

- PMN(Product Marking Name): Hybrid Reckon Controller
- FVIN(Firmware Version Identity Number): 1.0

User Scenario for Buttons



User Scenario for Buttons

	TX signal sequence	Short press	Long press	
action	NFC -> 802.15.4	1 Time	Repetitive action	
Button 1	NFC	WakeUp and Refresh	WakeUp and Refresh	
	902.15.4	Refresh	Refresh	
Button 2	NFC	FageDown	First Page	
	902:15.4	PageDown	PageDown	
Button 3	NFC	PageUp	Last Page	
	802:15.4	PageUp	PageUp	
Button 2+8	NFC	-	ShutDown	
	802:15.4	-	Refresh	
Button 1+2 (hidden)	NFC	-	Refresh	
	802:15.4		Refresh	

User	Scer	ario for LED	Indicator	
Color	LED	Description	Condition	Pattern
Magenta		Button press Indicator	NPC RF TX	Blinking
Yellow		Shut down	Sutton 2+3 Long press	Blinking
Red		Low Bettery	Button Press after Low Battery Status	Blinking



Documents / Resources



SOLUM NEWTON EL090MBCX0 Hybrid Remocon Controller [pdf] Instruction Manual EL090MBCX0, 2AFWN-EL090MBCX0, 2AFWNEL090MBCX0, NEWTON EL090MBCX0, NEW TON EL090MBCX0 Hybrid Remocon Controller, Hybrid Remocon Controller, Remocon Controller, Controller

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