1. General Outline

1.1 Overview

This Remote Controller is RF wakeup solution ideal for S-Label EPD-TAG. Remote Controller consists of RF Transceiver IC, ZigBee SoC, and Tact Switch.

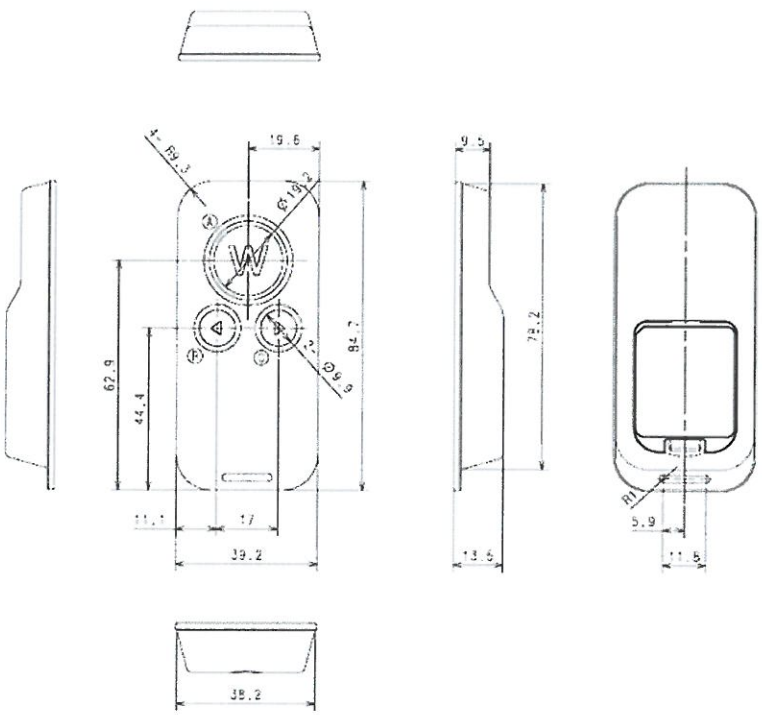
1.2 Features

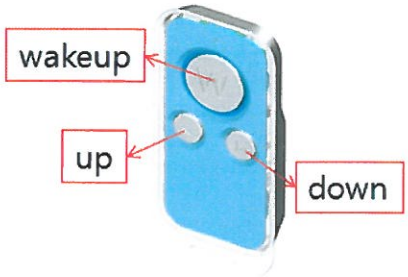
- LED : status Indicator(Green)
- Operating on 2.4GHz Unlicensed ISM band for ZigBee (2405MHz ~ 2480MHz)
- high-power Transmission, Frequency Band Selectable
- OutLine Dimension : 39.2 X 84.7 X 13.5 mm
- RoHS compliant

1.3 Application

- Retail industry with the electronic display and platform, solutions, and services
- Intelligently communicating, managing, and optimizing price and product informations.

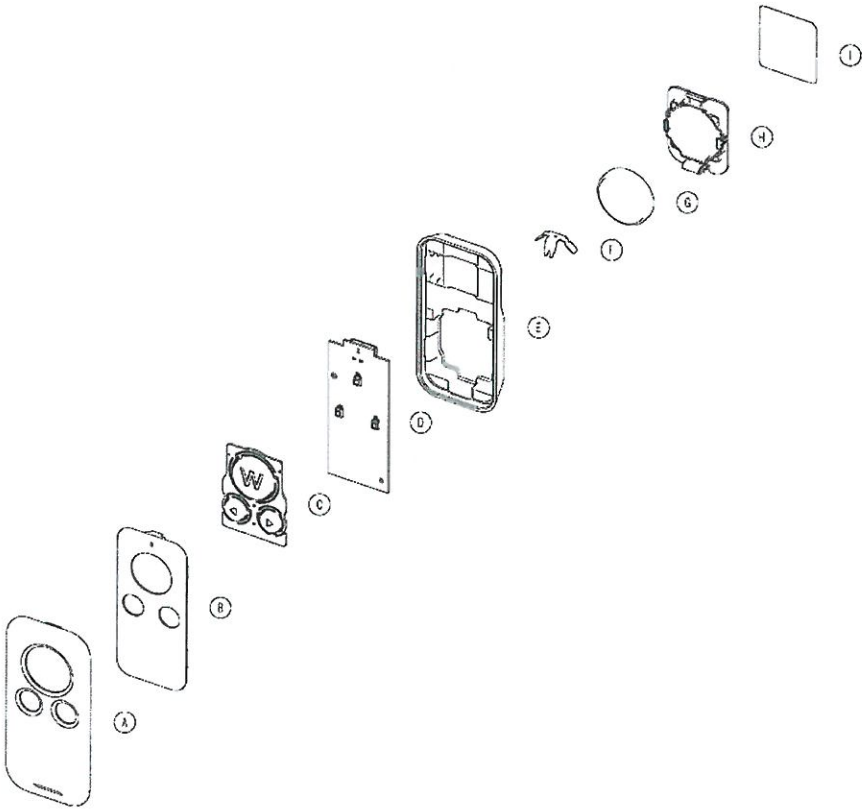
1.4 Physical Dimension





*** color : RED**

1.5 Exploded View of RC



A	FRONT
B	MIDDLE
C	BUTTON
D	PBA
E	REAR
F	TERMINAL
G	BATTERY
H	COVER
I	LABEL

2. Specifications

2.1 Product

Item	Description
Size	39.2 X 84.7 X 13.5 mm
Battery	CR2450 Lithium Battery (3V, 1ea)
Function	Wakeup/Page Selection
Communication	2.4GHz ISM Band(2405MHz~2480MHz)
Wakeup Sensitivity	2 ~ 3 Cm

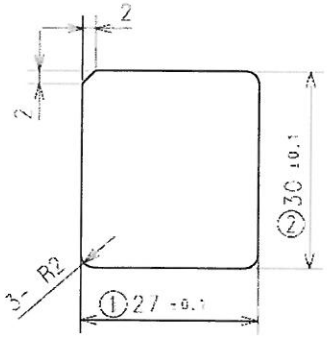
2.2 Radio (RF)

Items	Parameter	spec.			Units	Condition
		Min	Typ	Max		
TX	Transmit Power	+5	0	+10	dBm	
	Error Vector Magnitude	-	10	28	%	When measured for 100 chips
	Tx Current		-	80	mA	Total current at max Tx Power

* Test Channel(Tx) : 2405MHz

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

3.3 Label Specification

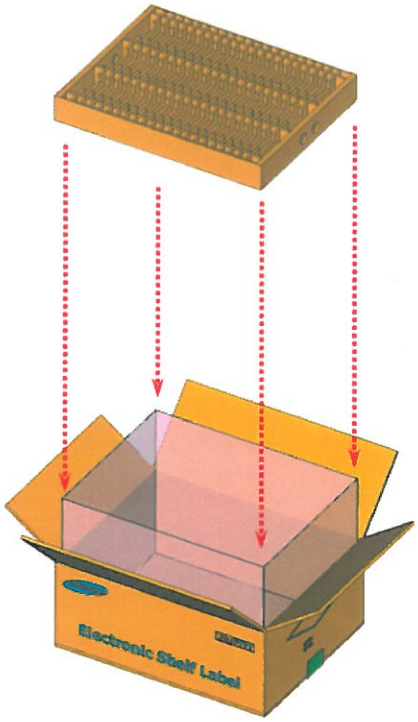


Dimension
: 27 X 30 mm

· 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, and Manufacture(SEMCO).

1) Model Name : SLT-RC004
2) MFD : (month).(date).(year) ex) OCT.28.2013
3) S/N : numeric & bar-code & bar-code number
(Hexa 10 digit)

3. Package Specifications



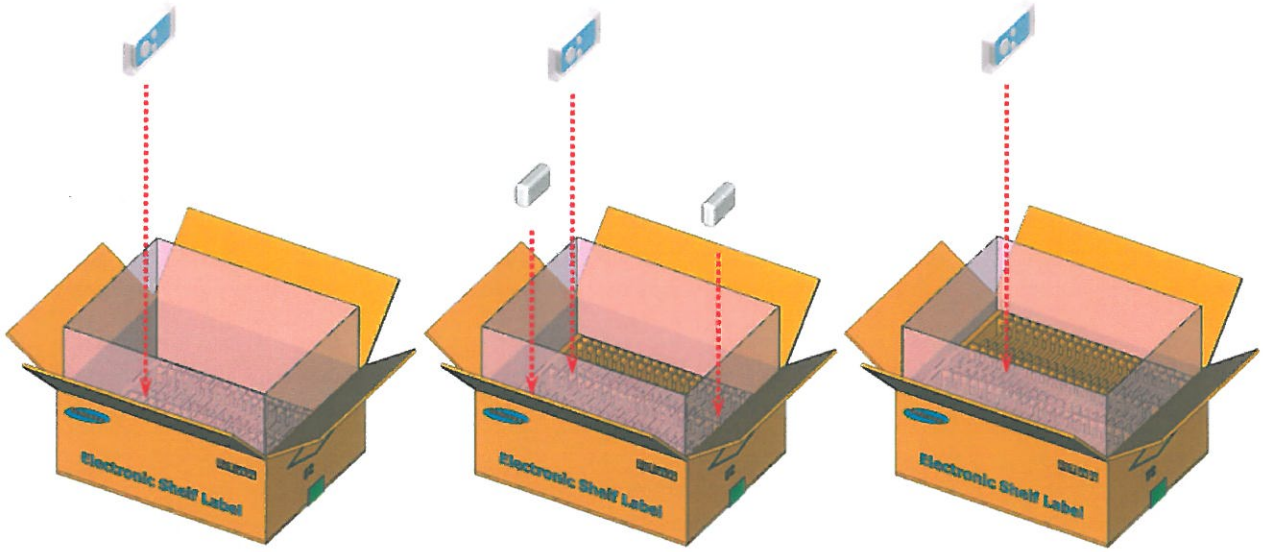
1 Packing-Cross

- ***Stack Height : 50mm***
- ***Q'ty : Max. 60 RCs / 1 Packing-Cross***

1 Packing-Outbox

- ***Stack Height : 170mm***
- ***Q'ty : Max. 180 RCs / 1 Packing-Outbox***

Put the RC into 1st Layer ***Put the RC into 2nd Layer (put Silica-gel)*** ***Put the RC into 3rd Layer***



4. 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.

4.1 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.

4.2 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℃ to +40℃. 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 vinyl 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.

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.