



InforTab INFINITE

User Manual

1. GENERAL DESCRIPTION

InforTab Infinite is a fully integrated Store Management Solution comprised of electronic shelf labels, advanced digital signage, inventory and environment management sensors, and asset tracking. They were designed to enrich shoppers' shopping journeys as well as to assist store operators in their job.

InforTab

InforTab shows product and price information, transferred from a server via a gateway. The display on InforTab can be easily designed and configured by using the PARTRON ESL InforTab software. Displays can include special information such as stock status, special discounts, barcodes, graphics, and other relevant data. All InforTabs have batteries, small "coin cells". InforTabs consume battery power only when they update information during communication with the server. When they are not communicating with the server, InforTabs are normally in sleep mode and consume much less power, even though they are showing information on their displays.



Gateway

The gateway relays information from the server to InforTabs and collects battery status, fault notifications and network activity data.

Server

The ESL server connects the ESL system with the back-office system and communicates with gateways. There are two types of server: local and central. Local servers are located in a store and control its gateways, while central servers are normally located in data centers and control gateways for all stores.

2. Specification

This section details specification of each InforTab INFINITE by size.

2-1. Product Specification

Dimensions (mm)	IE213 : 67.8 x 33.9 x 11.7
Weight	IE213 : 31.7g
Bezel Color	White, Black
Display technology	Full graphic E-ink display
Active display area (mm)	IE213 : 48.6 x 23.7
Resolution (pixels)	IE213 : 250 x 122
Pixel density	IE213 : 130 dpi
Viewing angle	Nearly 180°
Usable pages	Up to 7 pages
Operating Temperature	0 ~ 40°C
Battery (3V LI-MN dioxide soft pack battery)	IE213 : 1EA
Encryption	RAINUS protocol + compress
Water resistance	IP67
NFC	Yes, operating frequency 13.56MHz(Passive Tag.)
LED	Max 7 Color
ESL operating frequency	2.405 ~ 2.480 GHz
Wireless firmware update	Yes

3. InforTab – Ready Preparation

■ Connect InforTap UI

- 1** Plug in Gateway with power cable, and connect to PC by LAN cable. If all of these connected properly, Red, Green, and Blue lights will go on.
- 2** Run internet browser in PC, and write Gateway fixed IP (192.168.220.236) on address bar.
- 3** If connected properly, InforTab UI screen will appear.
- 4** Change Password in Menu 'Account Setting'. Initial ID is 'admin' and password is '1234'.

1. InforTab-Ready Preparation

1-3 InforTab Assign

InforTab and specific product work together showing the product information. This system is operated by 'Assign' process.

■ Assign confirmatory

InforTab-Ready's 4 InforTabs are already assigned.

Assigned InforTap in Gateway can be verified by

'Status > Tag' in UI.

■ InforTap Mac Address check

InforTab Mac address is displayed as barcode when you press '>' or '<' buttons of remote controller in front of tag.

Delete 2 digits and leave 4 digits from the back in order to search Mac address in UI.

For further more explanation, if Mac address is '78E980FFFE004C4B', can be searched by '004C'.

2. InfoTab Update

2-1 Confirm InfoTab Layout

InforTap Layout can be found at 'Product Update' menu.

Layout is location of information and design which shows in tag display. It can be adjusted in 'Layout Designer'.

We provide 'Layout Designer Manual' in addition which guides how to use 'Layout Designer'.

2-2 Product information Update

Product Update window is as below picture.

Rainus Infortab Admin Administrator

Product Update

Layout Id	Product Code	PR Info0	PR Info1	PR Info2	PR Info3	PR Info4
2p13c_classica	1P545C_NFC	137	3,85	500g	kg 7.70	8004192203104
2p13c_offerla_DKE	2P130_RL_NFC	137	3,85	500g	kg 7.70	8004192203104
2p130c_offerla	2P130_RL_NFC	137	3,85	500g	kg 7.70	8004192203104

Update Remove

- 1 Choose proper Layout and put appropriate InforTab information.
- 2 Check the square box in the right side and click 'Update' in the bottom side of page.

Confirm

Would you like to check the task in progress?

OKAY CANCEL

- 3 Press 'Okay' to confirm the procedure.

2-3 Confirm InfoTab Update Result

After the update, the page automatically moves to 'Task' menu in UI and it is available to check update status in real time.

Task Id	Store Code	Operation	Progress(%)	Start Time	End Time	Detail
1442561953	'store-1'	UPDATE	100%	2015-09-18 16:39:13	In progress	
	None	LAYOUT	100%	2015-09-18 16:36:30	2015-09-18 16:39:13	
	None	LAYOUT	100%	2015-09-18 16:35:41	2015-09-18 16:36:30	
	None	LAYOUT	100%	2015-09-18 16:10:10	2015-09-18 16:10:46	
	None	LAYOUT	100%	2015-09-18 16:09:35	2015-09-18 16:09:45	
	None	LAYOUT	100%	2015-09-18 16:08:38	2015-09-18 16:08:57	
1442558472	'store-1'	UPDATE	100%	2015-09-18 15:41:12	2015-09-18 15:41:37	
	'store-1'	ASSIGN	100%	2015-09-18 15:41:12	2015-09-18 15:41:12	

InforTab update generally completes in 5 minutes, but time it can be delayed by network circumstance.

To make InforTab update on purpose, Remote Controller.



After flicker light, update process will be operated when press the 'R' button of remote controller.

3. InforTab De-Assign, Re-Assign

3-1 InforTab De-Assign

'De-Assign' is process that to de-assign InforTab and product from Gateway. De-assigned InforTab cannot be updated unless re-assign it back.

Rainius InforTab Admin

Home Store Status Gateway

Tag Assign De-Assign

Tag Status

Tag	Store Code	Gateway IP	Operations	Result	Gateway	Temperature	RSSI
1	ZH00000000000000000000	localhost:8080	UPDATE	OK	32	28	-40
2	ZH00000000000000000000	localhost:8080	UPDATE	OK	32	28	-40
3	ZH00000000000000000000	localhost:8080	UPDATE	OK	32	28	-40
4	ZH00000000000000000000	localhost:8080	UPDATE	OK	32	28	-40
5	ZH00000000000000000000	localhost:8080	UPDATE	OK	32	28	-40
6	ZH00000000000000000000	localhost:8080	UPDATE	OK	32	28	-40

For de-assign, select 'Status > Tag' menu in UI and press 'De-assign'.

3-2 InforTab Re-Assign

If need to update back, 'Re-Assign' work is required. Choose 'Status > Tag' Menu in UI and click 'Assign'.

Tag Assign

File Import Default Product Code

Tag Assign

Tag MAC [Tag MAC]

Product Code [Product C]

Submit Reset

After click 'Assign' button, write down the InforTab Mac address and product code. Then press the 'Save' to make procedure complete.

4. Appendix

4-1 Wireless Network Circumstance

InforTap system uses two channels of wireless 2.4GHz, so that it can effect updating speed of InforTab according to wireless network environment.

■ Wireless Channel

According to wireless circumstance, InforTab system may not be operated properly by influence with other wireless instruments. In this case, changing channel is required.

In order to change channel, click 'Gateway Config' menu in UI and press 'Setting' Icon in right side of the page.

Gateway Config

Gateway Config Update

Gateway MAC

70:2C:1F:03:1A:21

Store Code

store-1

GW Index

0

must be a unique value in a store

IP Address

localhost:8080

Gateway IPv4 address

Netmask

255.255.255.0

Default GW

192.168.220.1

Default GW IPv4 address

DNS IP

203.248.252.2

ESL Server IP

localhost

ESL Server IPv4 address

ESL Server Port

80

Data Channel

13

IEEE 802.15.4 channel(11~26)

Event Channel

14

channel(11~26), should use one value for all gateways in a store

Radio Power

100

Radio power in percentage(1~100)

OP Mode

norm

Use "Normal Operation"

Channel Mask

12

Calculated by system on data channel change

Radio Baud

250

Gateway Ethernet MAC

GMP Version

2.1.0

Gateway Main Processor Version

GRM Version

4

Gateway Radio Module F/W Version

Note

Note something

Submit

Reset

Date channel, Event channel are composited with 11~26 channels..

Begin with 11 channel and go up until finding a proper one.

Press 'Save' button to confirm the channel.

5. FCC statements

Compliance Statement

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.

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.

Warning

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

RF Exposure

To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operation in conjunction with any other antenna or transmitter.

This equipment complies with FCC

FCC ID: 2BKXU-IE213