

ATTENTION

Before using this device, please read these instructions carefully and keep them for future reference. **Only use the device as described in this document. Should internet or router connection be lost, logging stops.**

CONTENTS

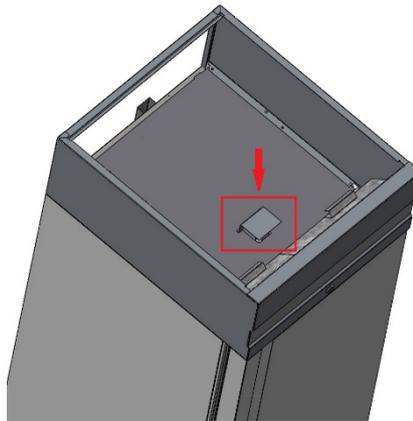
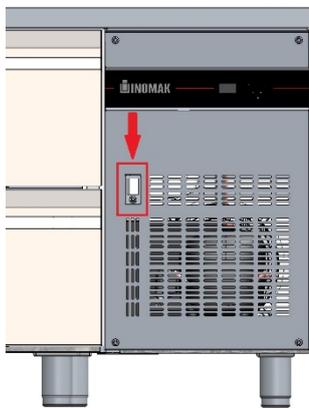
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1. DESCRIPTION

IoTW is a Wi-Fi gateway which allows the refrigerator and the **Cortex** IoT cloud platform to communicate via the Internet. The user accesses the platform either via a mobile phone app or via a browser on a computer. The Cortex platform aims to fully monitor and control the refrigerator, and to send emails and notifications to the mobile phone upon activation and deactivation of an alarm. Connection is achieved via the Wi-Fi router in the area of the refrigerator. The IoTW has a multifunction button and a red indication lamp.

In the case of under-bench refrigerators, the IoTW is installed in the front vent, behind the protective cover, whereas in cooling chambers it is installed on the exterior ceiling of the refrigerator, beneath the protective cover.



Lamp	Gateway indications
2 times/sec	In Wi-Fi connection standby mode
1 time/sec (quick)	In platform account connection standby mode
1 times/sec (prolonged)	Restarts every time it lights up
Blinks	Sending data to the cloud
Steady on	No router connection

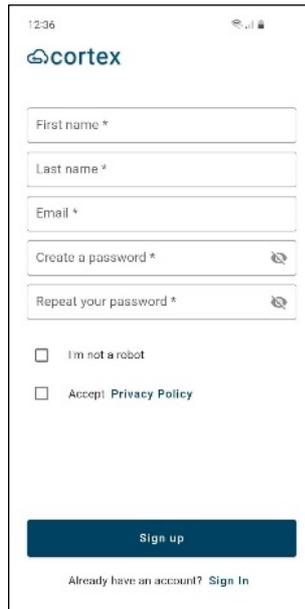
The gateway details – necessary for steps 2 and 3 below – are on the gateway label, which can be found on the right interior wall of the refrigerator.



2. CONNECTING THE REFRIGERATOR TO THE CORTEX IOT CLOUD PLATFORM

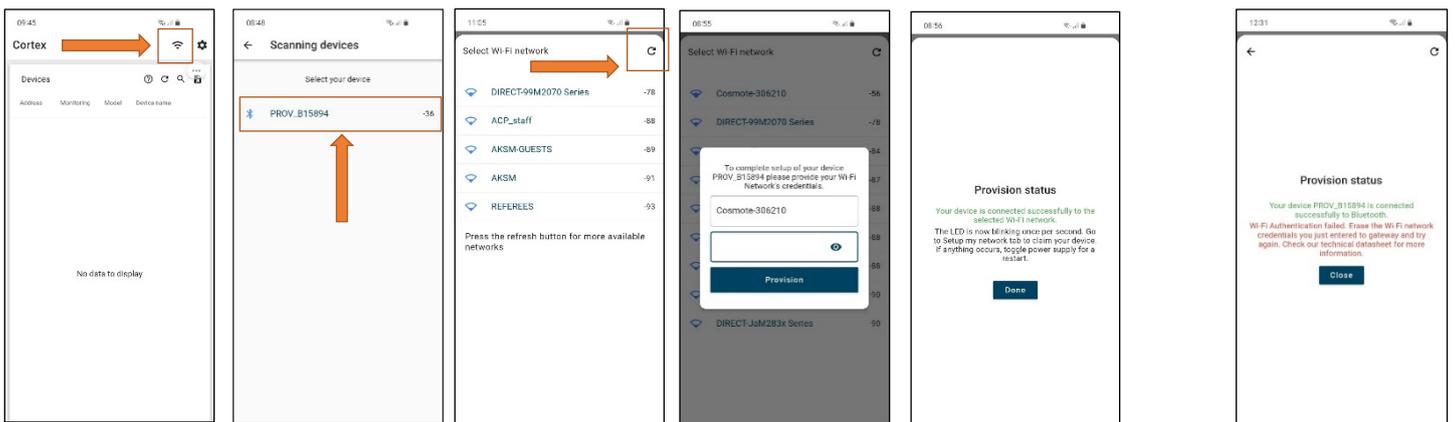
STEP 1 - ACCOUNT CREATION IN THE CORTEX PLATFORM

1. Download the  **Cortex KIOUR** app on your smartphone and grant access. The smartphone connects to gateway via Bluetooth BLE , therefore, Bluetooth must be enabled on the smartphone and the app must have access to Bluetooth in the location of the device as well.
2. Create an account by tapping the *Create Account* tab. The registered email will receive notifications in case of updates or alarms and cannot be changed at a later date. Only the password can be changed.
3. When an account is created, an activation email is sent to the registered email and this link must be confirmed in order to go to the main page of the Cortex platform. The link must be tapped from the smartphone to which the app was downloaded.
4. When you access the main dashboard, no device will be listed and the indication **No data to display** will appear.



Symbols on Cortex platform	
	Help
	Information
	Gateway restart
	Edit gateway settings
	More details
	List renewal
	Open technical sheet
	Data export
	Search list
	Maximise screen
	Minimise screen

STEP 2 - CONNECTING THE IOTW GATEWAY TO WI-FI – PROVISIONING

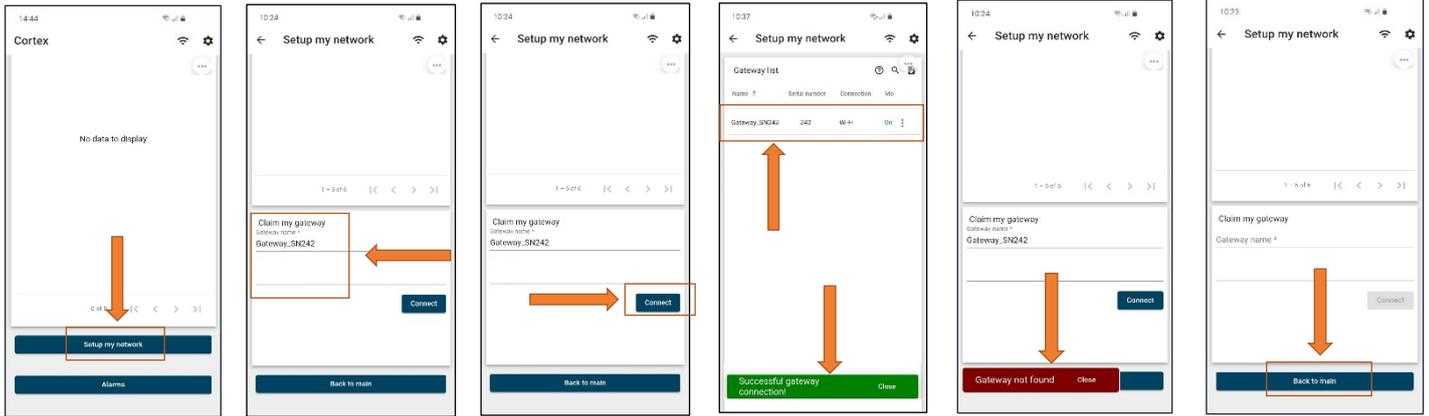


1. Plug the refrigerator into the outlet. The gateway lamp blinks 2 times/second which means it is in Wi-Fi connection standby mode.
2. Tap  to find your device and to register the desired Wi-Fi network. The gateway details can be found on the label, which can be found on the right interior wall of the refrigerator.
3. If the network cannot be found, tap  at the top right repeatedly.
4. If the details are entered correctly, provisioning is completed *successfully*, *Done* pops up on the screen and clicking it takes you to the main dashboard. If the network details are entered incorrectly, provisioning is completed *unsuccessfully*, *Close* pops up on the screen and clicking it takes you to the main dashboard. The network details you just entered to gateway must be deleted and the Wi-Fi network registration procedure needs to be restarted. For more information refer to paragraph [Removal of existing Wi-Fi network from gateway](#).

A once-off Wi-Fi connection is necessary and you will not be required to repeat the procedure, unless you want to change the gateway Wi-Fi network.

**If you are unable to connect due to your smartphone's incompatibility with the above method, refer to paragraph [Alternative Wi-Fi connection](#).*

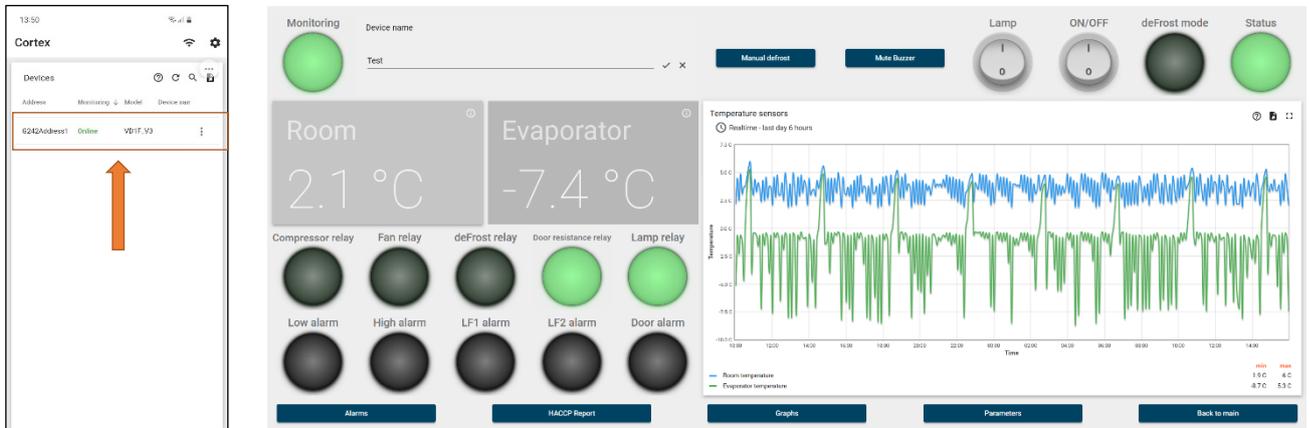
STEP 3 - CONNECTING THE IOTW GATEWAY TO THE CORTEX ACCOUNT



1. Tap the *Set up my network* tab at the bottom of the main page. The gateway lamp blinks 1 time/second which means it is in platform account connection standby mode.
2. In the Set up my network page and the Claim my gateway window, enter the gateway name exactly as it is printed on the label, which is located on the right interior wall of the refrigerator (see page 1)
Ensure that you enter the “_” correctly.
3. Click the *Connect* tab.
4. Successful registration appears at the bottom of the app and the device appears in the gateway list. An incorrect registration of details results in the message **Gateway not found**. Please ensure that the gateway name has been registered correctly as even a space at the end can prevent the connection.
5. At the top of the page, click *Back to main* to return to the main dashboard.

By following these steps, it is possible to link as many gateways as you like to an account. In the end, they will appear in the gateway list.

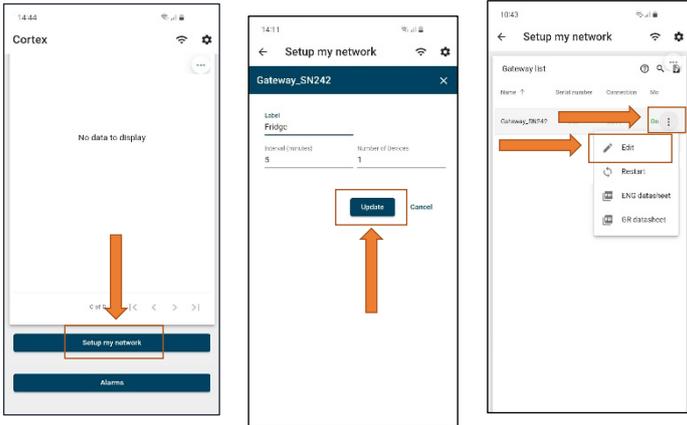
3. MONITORED REFRIGERATOR



Computer image

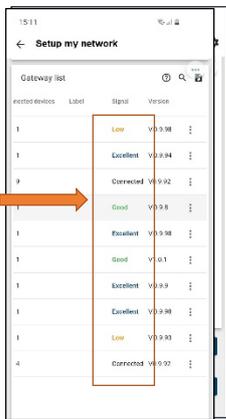
Having successfully linked the Wi-Fi to the IoTW gateway, you can return to the main dashboard. The refrigerator that has been connected to the gateway should *automatically* appear. If it does not appear, unplug and re-plug the refrigerator and wait for it to appear automatically. By clicking the refrigerator tab, you will be taken to the refrigerator's dashboard for full control and logging. Temperatures are automatically renewed every few seconds, while logging can be changed in the gateway settings, refer to paragraph [Log settings](#).

4. LOG SETTINGS



1. Tap the *Set up my network* tab at the bottom of the main page.
2. In the *Gateway list* window, tap  next to the gateway whose setting you would like to change and then *Edit*. In the new window you can set the frequency of the logging in minutes and allocate a name to the gateway that will be sent with the notifications.
3. Once this is completed, tap the *Update* tab.

5. SIGNAL RANGE



1. Tap the *Set up my network* tab at the bottom of the main page.
2. The gateway signal intensity appears in the Signal column of the *Gateway list*. There are 4 signal levels: **Excellent**, **Good**, **Low**, **Very low**. When "----" appears, there is no signal. *It is recommended that the gateway Wi-Fi be positioned in a **Good** range.*

Cortex platform Wi-Fi signal	
----	No signal Device is offline
Excellent	Very good signal
Good	Good signal
Low	Low signal
Very low	Weak signal

6. ALARM NOTIFICATIONS



Alarms from all devices on network						
Realtime - last 30 days						
Created time ↓	End time	Device	Name	Type	Status	
2023-02-02 08:45:38	2023-02-02 08:45:42	G17Address4	G17Address4	OFF device	Cleared	
2023-02-02 08:45:29	2023-02-02 08:45:34	G17Address4	G17Address4	OFF device	Cleared	
2023-02-02 08:35:50	2023-02-02 08:48:02	G177Address1	A/ΘA	High temperature	Cleared	
2023-02-02 08:22:39		G77Address2	Panel entrance	No monitoring	Active	
2023-02-02 08:11:39		G281Address2	Καλυψανό 2	No monitoring	Active	
2023-02-02 08:08:39	2023-02-02 08:30:10	G78Address3	ΥΠΟΓΡΟΙΚΟΝΤΑ ΕΞΩ	No monitoring	Cleared	
2023-02-02 08:06:39		G281Address1	Καλυψανό 1	No monitoring	Active	
2023-02-02 02:31:00	2023-02-02 02:44:27	G177Address1	A/ΘA	High temperature	Cleared	
2023-02-01 23:45:39		G282Address1	ΠΑΓΩΜΕΚΑΝΗ	No monitoring	Active	
2023-02-01 21:02:11	2023-02-01 21:03:03	G124Address1	ΦΟΥΡΝΟΣ	High temperature	Cleared	

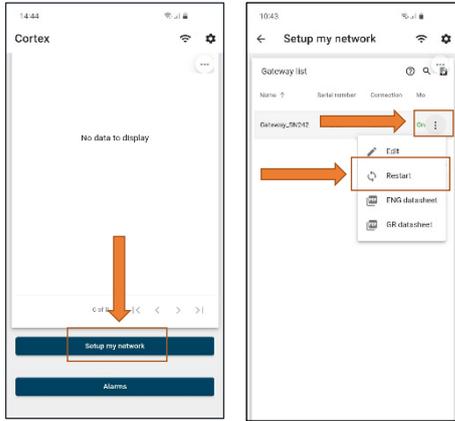
Computer image



Notifications regarding refrigerator alarms and communication failure with the Cortex platform are sent to the email that was initially registered to the platform and a message is automatically sent to the app.

To view the notifications that were sent to the app, tap the *Alarms* tab at the bottom of the main page. You will be taken to the a main dashboard which logs all the alarms for the account. Each line represents an alarm and shows the date/time the alarm was created, the date/time the alarm ended, the device address, its name, the alarm type and its status, i.e., if it is *Active* or *Cleared*.

7. REMOTE RESTARTING OF GATEWAY



To restart the gateway via the Cortex platform, the following steps need to be taken:

1. Tap the *Set up my network* tab at the bottom of the main page.
2. In the *Gateway list* window, click  next to the gateway you would like to restart and then the  *Restart* tab. Wait 10 seconds until the *Status* column changes to *Online* at which time the gateway has been successfully restarted.

8. REMOVAL OF EXISTING WI-FI NETWORK FROM GATEWAY

To remove an existing Wi-Fi network from gateway and register a new Wi-Fi network, the following steps need to be taken:

1. The refrigerator must be unplugged.
2. Hold down the gateway tab while plugging in the refrigerator. The lamp blinks quickly indicating it is in set up mode. Let go of the tab.
3. Retap and hold the tab down for at least 5 seconds. Let go. The lamp blinks 2 times/second: The data of the old Wi-Fi network has just been erased and it is in new Wi-Fi connection standby mode.
4. Follow the steps in [Connecting the IOTW gateway to Wi-Fi – Provisioning](#) to register the new Wi-Fi.

9. ALTERNATIVE WI-FI CONNECTION

If you are unable to connect by following the steps in paragraph [Connecting the loTW gateway to Wi-Fi – Provisioning](#), the following steps need to be taken:

1. Tap and hold the gateway tab down while plugging in the refrigerator. The lamp blinks quickly indicating it is in set up mode. Let go of the tab.
2. Retap and hold the tab down for at least 20 seconds. Let go. The lamp blinks 3 times/second: Gateway is in new Wi-Fi connection standby mode via the alternative Wi-Fi connection method.
3. Find the BLE Name on the refrigerator label.
4. Download the ESP BLE Provisioning app  and grant access. Tap the **Provision new device** tab. From the list that appears, search for the BLE Name, select it and enter the PIN: abcd1234 when prompted.
5. You will then be taken to a list of available Wi-Fi networks. Enter the desired network. The gateway's connection to the available Wi-Fi network has been successfully completed.
6. The gateway lamp blinks 1 time/second which means it is in platform account connection standby mode. Follow the steps described under [Connecting the loTW gateway to the Cortex account](#) to link gateway to your account.

If connection fails due to your smartphone's incompatibility, try downloading the app on another mobile phone. A once-off Wi-Fi connection is necessary and you will not be required to repeat the procedure, unless you want to change the gateway Wi-Fi network. This app is only used for this procedure and not for monitoring and controlling the device.

Made in Greece.



The device is covered by a two-year good performance warranty. The warranty applies only if the instructions for use have been observed. The device must only be tested and repaired by an authorised technician. Warranty only covers the replacement or repair of the device. KIOUR reserves the right to adjust its products without notice. KIOUR Private Company implements a Quality Management System according to the Standard EN ISO 9001: 2015 with registration number 01013192.