

INSTALLATION OF MICRO STATION SIGFOX

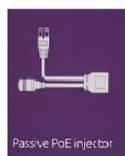
The Micro Station provides an adaptable and easy-to-install solution to expand the Sigfox network yourself, for hard-to-reach places. It brings immediate network coverage to an area, allowing companies to implement their IOT solutions where there is still no Sigfox reception in a stabilized way.



The Micro Station installation kit consists of the following components:



Package contents



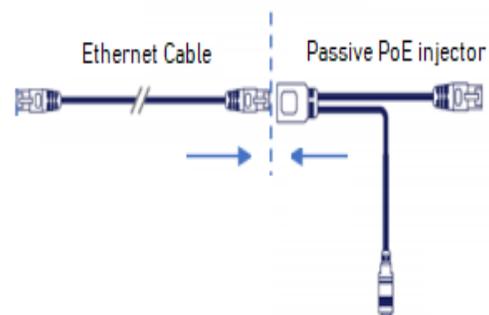
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To perform the correct installation of the Sigfox Mini Station, follow these steps:

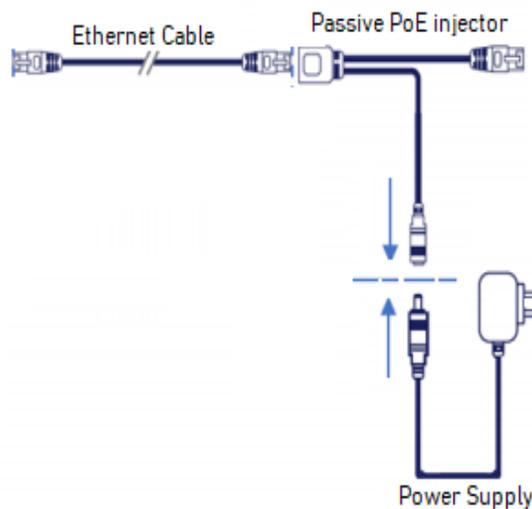
1. The Ethernet cable must be joined with the PoE injector which are shown in the following image:



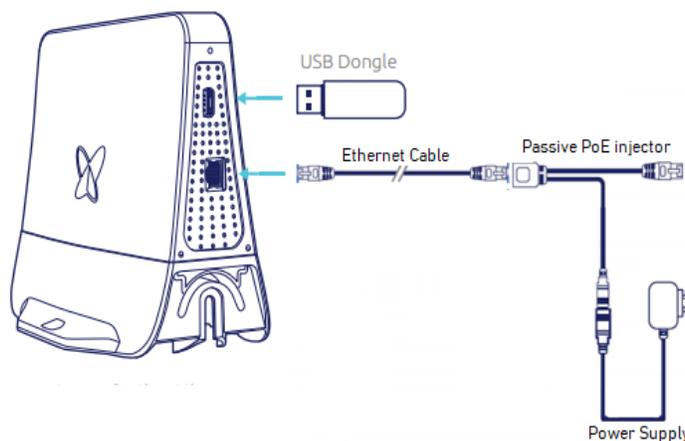
2. You must join the way you display in the connection schema:



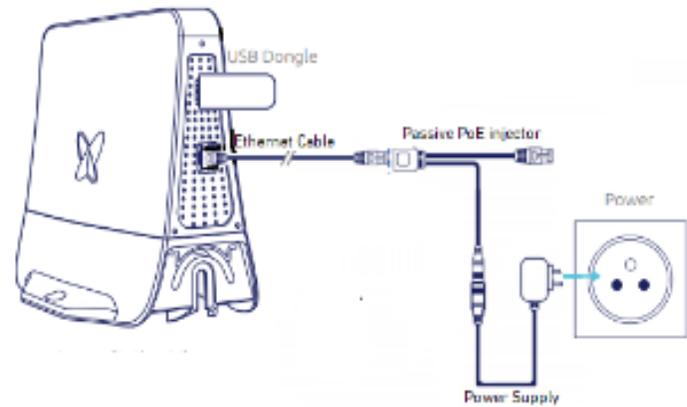
3. The previously made connection of the Ethernet cable with the Passive PoE injector, at this point will be appended the Power Supply which must be connected as follows:



4. Subsequently we must connect to the Micro Station Sigfox the USB Dongle 3G or 4G, we will also connect the Ethernet cable as shown below:



5. To finish we must connect the Power Supply to the electrical power with a voltage of 220 / 110 V AC, as shown in the following images:



6. After connecting the Micro Station to the power of time for it to initialize and connect to the IoT platform, which will indicate us with a green LED as shown in the image below.



NOTE: If the Indian LED after 2 minutes that is connected to the electrical energy has a different color than green, please follow the gia that is shown after which shows the current status of the Sigfox Micro Station, to solve the problem that is presented to us.

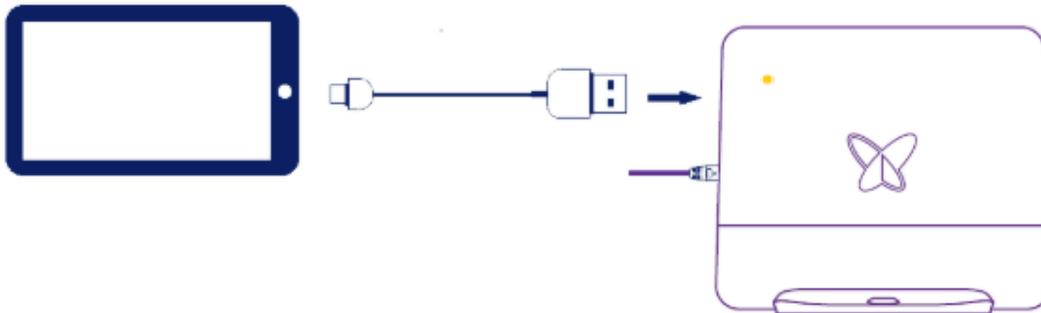
Status of the Indicator LED of the Micro Station Sigfox

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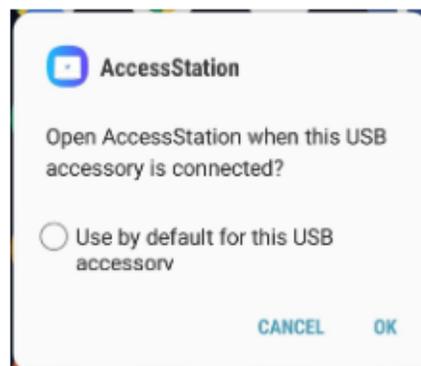
Color de LED	Micro Station Status	Description
 Off	Off	Check the power supply, injector and Ethernet cable
Red (for 30 seconds)  Red (fixed >1 Minute)	On. Hardware problem.	If the light remains red after 2 minutes, try disconnecting and reconnecting the station. If the problem persists, contact XALDIGITAL support.
Flashing Green (30 s to 1 min) 	Initializing the system.	If the light continues to flash green after 1 minute, try disconnecting from the power and reconnecting the station. If the problem persists, contact XALDIGITAL support team.
Orange (flashing) 	Establishing connectivity.	If the light still flashes orange after 1 minute, check the network connection. Configure the APN on the Micro Station.
Orange (fixed) 	Establishing the VPN Connection.	If the light remains orange after 1 minute, check DNS Policies and Servers. Refer to the ICMP /NTP Resolution policy or delete the proxy settings. Verify the HTTPS connection policy or certificate. Authorize VPN/IPSec policy.
Green (solid) 	Working properly.	
Purple (solid) 	Abnormal temperature.	Heating (temperature <10C) - not in service (maximum 10 min) Cooling (temperature >70oC).

If the indicator LED is shown in solid orange after an extended period of time, we must establish the APN, to establish the APN we must follow the guide presented below.

To start the process, we will need a device (Tablet or cellular), then connect your device with your USB cable to the USB port of the station.

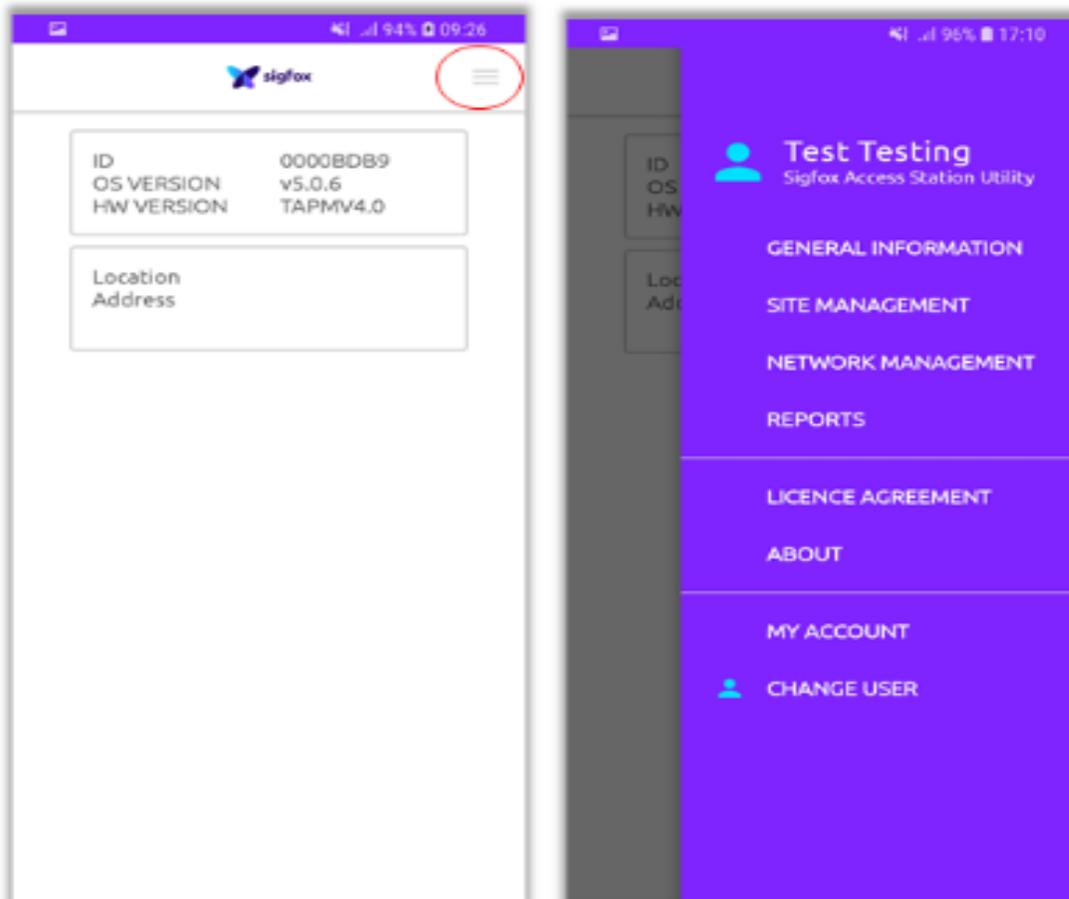


1. Connecting through your device to the Micro Station will automatically run the following app. If you select "Use by default", you will not see this message again for that station and then press OK to continue.



2. The Overview will then appear.

The following screen presents the details of the Access Station: ID, OS, and hardware versions. In the upper right is the utility menu icon.



3. Site management where the Information where the station is or will be installed will be located.

The site number is required and must be provided by the local Sigfox operator. You can provide the site location with GPS coordinates (if you allow the app to access the device location) or address. The address field is required if the others remain blank. The last section, the antenna location is set to Inside by default. You can change it to Outdoor if the station is to be installed outside. Once completed, press SAVE. Go back to the main

The screenshot shows the 'Site Management' screen in the Sigfox app. It features a 'Site Details' section with input fields for 'Number', 'Lessor', 'Name', and 'Reference'. Below this is a 'Site Location' section with a location icon, and input fields for 'Latitude', 'Longitude', and 'Address'. At the bottom, there is a 'SAVE' button.

menu. If there is no connectivity configuration to add or modify, you can go directly to Reports. If you need to set up an Ethernet or cellular connection, select Network management.

4. Network management

Modify this section only if the network connection requires a specific configuration.

4.1. Ethernet connectivity By default, the configuration is set with DHCP and automatic DNS.

The screenshot shows the 'Network Management' screen in the Sigfox app. It has two tabs: 'ETHERNET' (selected) and 'CELLULAR'. Under 'ETHERNET', there are options for 'SAVE CONFIGURATION', 'LOAD CONFIGURATION FILE', and 'IP'. The 'IP' is set to 'Automatic (DHCP enabled)'. Below that, 'DNS' is set to 'Automatic' with a checked checkbox. At the bottom, there is an 'Update configuration' button.

To configure manual configuration, you must complete the static IP address, network mask, and gateway. For DNS, set a primary and secondary address.

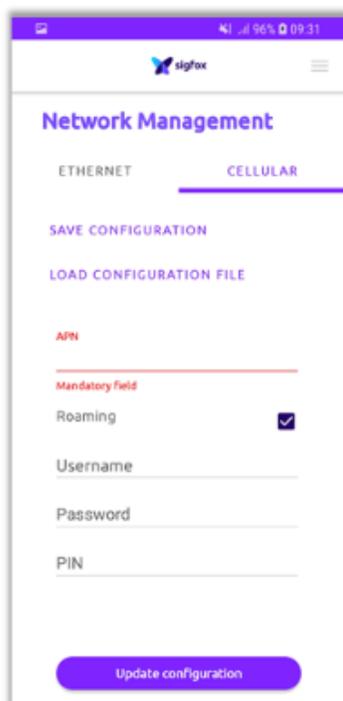
If you manage multiple Access Station Micro, you can save the settings as a file on your device to load for the following.

Tap "Update Settings" to validate and test it. The test can only be run if the PoE is connected to an Ethernet output.

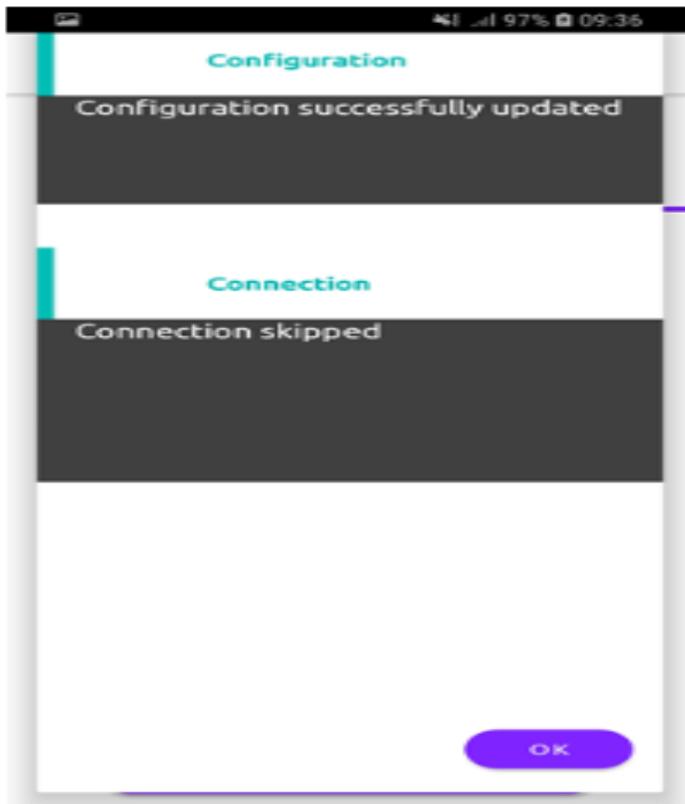


4.2. Cellular connectivity

The APN is a required field to configure cellular connection (3G or 4G). Activating the VPN requires specific settings for the network provider to which we want to connect.



The Username, Password, and PIN fields are optional, depending on the SIM card requirement. The PIN code is often disabled for M2M SIM cards. If you manage multiple stations, you can save the settings as a file on your device for upload to the following stations. Press "Update Settings" to validate. The test is automatically skipped because the USB key cannot be connected at the same time as the Access Station utility. Cellular settings apply to the station and no reboot is required.



5. Reports

This page provides a summary of the information provided. You can expand each section to verify the details. If it is ok, press "SENDREPORT".. SEND REPORT



The report will be transmitted only if the station has an Internet connection. If the station does not have an ethernet connection at that time, it will resubmit the report when the cell phone is connected. If the station restarts in the meantime, the report will not be sent.

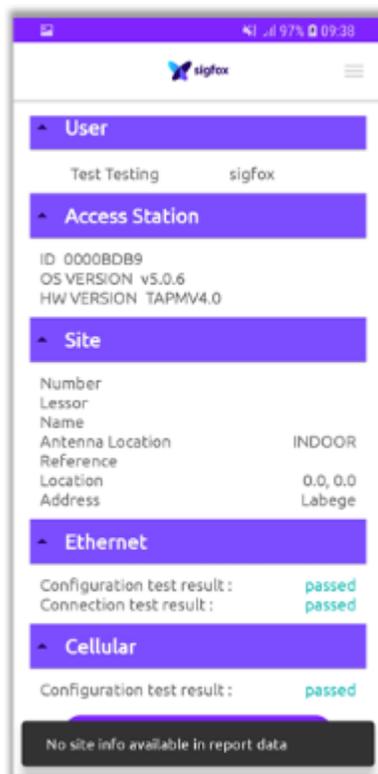
6. Troubleshooting

6.1. Unable to communicate with the access station



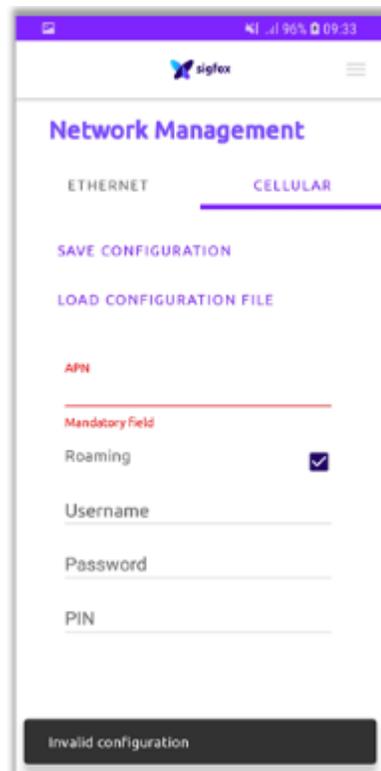
- Make sure the station is turned on (the LED must be green or orange).
- Make sure that the USB cable is properly connected to the device and the STATION's USB port.
- Close the application. Try disconnecting the cable and reconnecting it to restart the application automatically.
- Remove the cable, restart your device, and try again.

6.2. No site information is available in the report data



- The site number is a required field, even if it is not marked as such.
- Go to Site Administration to enter the number.
- The number must be provided by the OS.

6.3. Invalid configuration



- The network configuration provided was not in the expected format.
- APN is a required field for cellular connection
- If cellular connection is not required, select another page from the menu