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# 804Mesh Quick Start Guide

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This document provides general installation practices for the Calix 804Mesh Satellite.

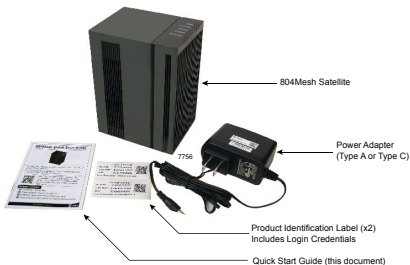
This document also provides guidance for site preparation, installation, and basic troubleshooting.



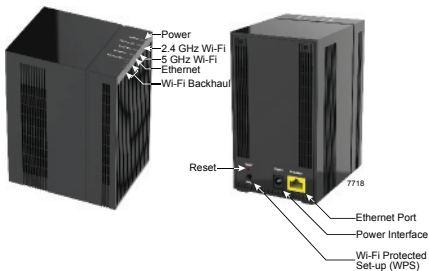
Scan the QR code at left to access the installation instructions for this product. All documentation is available online from the My Calix portal ([calix.com/mycalix](http://calix.com/mycalix)).

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## Package Contents



## A Quick Look



## Mounting the 804Mesh

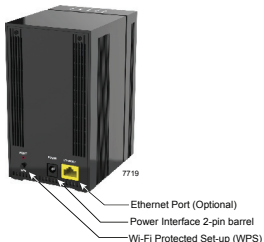
The 804Mesh must be placed on a tabletop or shelf in an upright orientation.

An optional mounting bracket (available separately) is available to mount the 804Mesh on a wall or ceiling.

## Powering the 804Mesh

To power the equipment:

1. Remove any protective packaging or films.
2. Plug one end of the power adapter into the 804Mesh's power port and the other into an available wall socket. Note the power cord is 5 feet (1.5 meters) long



## Managing the 804Mesh

The initial set-up and ongoing maintenance including software upgrades of the 804Mesh is managed remotely by your service provider.

## Connecting the 804Mesh to your Network

**Note:** The upstream GigaCenter must be running ONT Release 12.2.6 or above in order to realize the full benefit of advanced features on the 804Mesh.

To complete the network connection, two options are available:






1. Connect the 804Mesh to the upstream GigaCenter using the WPS functionality built into both products. Press and hold the WPS button on the GigaCenter for at least 5 seconds. When released, the WPS LED will blink amber. Then go to the 804Mesh and hold the WPS button until the signal strength LEDs begin flashing. At this point, a pairing attempt will begin. Note that you have a maximum of two minutes between button pushes (walking time).
2. Connect an Ethernet cable between the 804Mesh and the upstream GigaCenter. Once the Ethernet cable is connected, the 804Mesh automatically learns the network topography.

**Note:** The Received Signal Strength Indicator (RSSI) will not light up when the 804Mesh is connected to the GigaCenter using the Ethernet interface.

## Using the Received Signal Strength Indicator (RSSI) to Position the 804Mesh

Backhaul signal strength can be monitored via the bank of four LED's located on top of the 804Mesh. These lights display the relative signal strength of the 804Mesh in the network.

The table below explains possible LED states as it pertains to RSSI.

LED Display	Description	Comment
	RSSI > -50 dBm	The 804Mesh is too close to the GigaCenter.
	-50 dBm >= RSSI >= -60 dBm	The distance between the 804Mesh and the GigaCenter is optimal.
	-60 dBm > RSSI >= -70 dBm	The distance between the 804Mesh and the GigaCenter is optimal.
	-70 dBm > RSSI >= -80 dBm	The distance between the 804Mesh and the host device (GigaCenter) provides adequate results.
	RSSI < -80 dBm	The 804Mesh is too far from the GigaCenter.

Note that the absence of any lit LEDs indicates a lack of connectivity between the 804Mesh and the host GigaCenter or the 804Mesh is connected via the Ethernet cable.

## Frequently Asked Questions

**Q:** Who do I contact for service and support?

**A:** Contact your service provider.

**Q:** What is the difference between “Ethernet” mode and “Wi-Fi Backhaul” mode?

**A:** In Ethernet mode, an Ethernet cable is used to support backhaul traffic and the 5 GHz Wi-Fi bandwidth is shared with all client devices.

In Wi-Fi Backhaul mode, the 5 GHz Wi-Fi bandwidth is shared with the backhaul traffic and all client devices.

**Q:** How do I reset the device without having to unplug the unit?

**A:** Press the RESET button for less than 5 seconds to reset to the current configuration settings.

**Q:** How do I restore the 804Mesh to factory settings?

**A:** Press the RESET button on the back of the unit for 5 seconds or more), or access the “Restore Defaults” reset button located in the “Utilities” section of the embedded web interface (EWI).

**Q:** What do I do if the User Name or Password is forgotten?

**A:** Press the RESET button for 5 seconds or more. This will restore the factory settings and allow you to connect using the default User Name and Password.

**Q:** What mounting options are available for installing the 804Mesh?

**A:** The 804Mesh can be installed on a desktop or shelf without additional hardware. An optional mounting bracket is available for ceiling or wall mounting.

## **Potentially Explosive Atmosphere**

Do not use the 804Mesh in an area where a potentially explosive atmosphere exists.

## **Atmosphère potentiellement explosive**

N'utilisez pas le 804Mesh dans un endroit où existe une atmosphère potentiellement explosive.

## Intended Use

This product is classified as telecommunication equipment not intended for direct purchase by the public.

This product is designed and approved for use in an indoor location only.



**CAUTION!** Use of any controls, adjustments, or procedures other than those specified herein may result in hazardous radiation exposure.

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## Utilisation prévue

Ce produit est classé comme équipement de télécommunication non destiné à l'achat direct par le public.

Ce produit est conçu et approuvé pour utilisation en intérieur uniquement.



**MISE EN GARDE !** L'utilisation de contrôles, réglages ou procédures autres que ceux spécifiés dans ce manuel peut entraîner une exposition dangereuse à des rayonnements.

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## Power Supply

- Ensure that a suitable AC power outlet is situated near the 804Mesh and easily accessible.
- Connect the power supply cord only to the AC power outlet that meets the specifications marked next to the appliance AC power inlet on the 804Mesh.
- Never alter the AC power cord. If necessary have the correct outlet installed by a qualified electrician or call your service provider for assistance.
- To reduce the risk of damage to the electric cord, remove it from the outlet by holding onto the AC power adapter rather than the cord. Make sure the cord is positioned so that it will not be stepped on, tripped over or otherwise subjected to damage or stress.



**WARNING!** Do not use any other power adapter except the one that accompanies this unit or a power supply identified in the list below. Use of another adapter could result in damage to the unit. To prevent electrical shock, please do not open the cover. The following power adapter is qualified for use with this 804Mesh.

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*This 804Mesh must be powered by Frecom  
F18L10-120150SPAU or equivalent UL Listed LPS power source rated  
at:  
Input: 90-264 VAC, 47/63 Hz, 1.0A,  
Output: Nominal 12 VDC, 1.5A Minimum, 18W*

## Alimentation électrique

- Assurez-vous qu'une prise de courant C.A. appropriée est située près du 804Mesh et qu'elle soit facile d'accès.
- Connectez le câble d'alimentation uniquement à une prise de courant qui correspond aux spécifications indiquées à côté de l'entrée d'alimentation du 804Mesh.
- Ne modifiez jamais le câble d'alimentation. Si nécessaire, faites installer la bonne prise de courant par un électricien qualifié ou contactez votre prestataire de services pour assistance.
- Pour réduire le risque de dommage au câble électrique, retirez-le de la prise de courant en tenant l'adaptateur secteur plutôt que le câble. Assurez-vous que le câble est positionné de manière à éviter qu'il soit possible de marcher ou trébucher dessus, ou de l'endommager.



**Attention !** N'utilisez pas d'autre adaptateur secteur que celui qui accompagne cet appareil ou une alimentation électrique autre que celle identifiée dans la liste ci-dessous. L'utilisation d'un autre adaptateur pourrait endommager l'appareil. Pour éviter les chocs électriques, n'ouvrez pas le couvercle. L'adaptateur électrique suivant est qualifié pour être utilisé avec le 804Mesh.

*L'adaptateur électrique suivant est qualifié pour être utilisé avec le 804Mesh*

*Ce 804Mesh doit être alimenté par un adaptateur Frecom F18L10-120150SPAU ou une source d'alimentation équivalente certifiée UL LPS de capacité:*

*Entree: 90-264 VCA, 47/63 Hz, 1.0A,*

*Sortie: Valeur nominale 12 VDC, 1.5A Minimum, 18W*

## Children

Do not allow children to play with the 804Mesh. It contains small parts that could become detached and create a choking hazard.

## Environmental Conditions

- Maximum environmental values during use: Temperature: 0° C to +40° C (32° to 104° F), Humidity: 10% to 90% RH, non-condensing, 200 feet below sea level to 10,000 feet above sea level.

## License Information

### Open Source Software Utilization Notice

The 804Mesh uses Open Source Software Programs. Such software programs are made available subject to certain third-party terms and conditions.

The fact that you are about to begin using or have purchased this product requires that you be informed of the use of these software packages and or libraries and in some cases, the third-party terms and conditions applicable to such software. This information can be found on the manufacturer's support portal. Refer to the appropriate software release notes for additional information on Open Source Software Programs used by this product.