Setting up the 804 Mesh unit.

The 804 mesh unit can be used to extend the carrier class WiFi internet network of the Gigacenter to other areas of your home.

1. Plug the supplied power cord into the 804 Mesh unit power interface (see diagram A below) and the other end into a working electrical outlet.
2. Allow 2 minutes or so for the unit to fully boot up.
3. Locate the Gigacenter unit that is installed in your home.


4. Press and hold the WPS button on the Gigacenter for 5 seconds and then release. The WPS LED on the Gigacenter will blink amber after approximately 10 seconds and flashes for up to 120 seconds. The Gigacenter has entered pairing mode.

5. Press and release the Wi-Fi Protected Set-up (WPS) button on the back of the 804. See diagram A below.

Diagram A

7719

Ethernet Port
(Optional)
Power Interface

Wi-Fi Protected
Set-up (WPS)
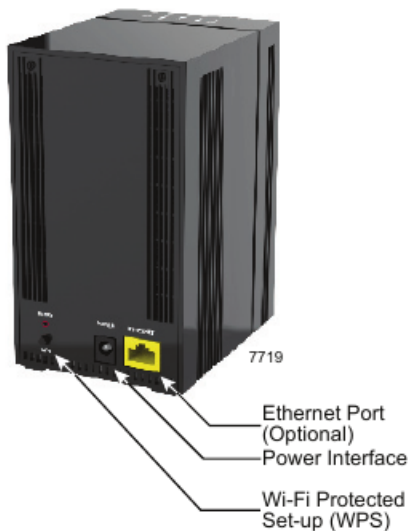
Once the units are paired, the WiFi backhaul LEDs on the 804 will show the signal rate.

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 804 Mesh and the GigaCenter is optimal.
	-60 dBm > RSSI >= -70dBm	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.

The following table details common LED states during boot-up and/or operation.

LED Name	Behavior	Default Condition
Power	Off	Service Gateway is powered off
	Flashing Green	Service Gateway is booting up. Flashing green has a 50% duty cycle.
	Flashing Red	Power On Self Test (POST) in progress. (50% duty cycle.)
	Solid Green	Service gateway is powered on, POST completed successfully
	Solid Red	POST has failed to complete or 804Mesh has malfunctioned.
	Flashing Amber	Performing firmware upgrade (50% duty cycle).

LED Name	Behavior	Default Condition
Wi-Fi (2.4 GHz or 5 GHz)	Off	Radios are off and not functional
	Flashing Green	Service Activity is present, passing traffic
	Solid Green	Radios are up and functional.

LED Name	Behavior	Default Condition
Ethernet	Off	The device is not powered, no cable or no powered devices connected to the associated port.
	Flashing Green	Activity seen from devices associated with the port (traffic only in the inbound direction on the associated port). The flickering of the light should be synchronized to actual data traffic.
	Solid Green	Powered device connected to the associated port (includes devices with wake-on-LAN capability where a slight voltage is supplied to an Ethernet connection.

LED Name	Behavior	Default Condition
WiFi Backhaul	Off	Broadband interface is powered off or backhaul signal not detected.
	Solid Green	When backhaul signal is Active and if Link has been established (paired) with the gateway.
	Flashing Green	A backhaul signal is detected and is attempting to sync (50% duty cycle).
	Red	WPS pairing has failed.
	Flashing Red	A Session Overlap has occurred.

804 mesh units should have at least two signal bars but three or more would be best so locate the 804 Mesh units in relationship to the Gigacenter to achieve the best signals.

Position the 804 as high as possible.

Position the 804 mesh units at least 20 feet apart from one another.

See the information located at the link below for helping you determine the best location for the 804 Mesh unit.

http://support.jagcom.net/Downloads/Positioning%20of%20Your%20Wireless%20Access%20Devices.pdf

The lights on the 804 mesh unit will also aid you is this process. See tables above.

More information can also be found at the link below.

http://support.jagcom.net/Downloads/Gigacenter%20and%20804%20Mesh.pdf