



# **GigaSpire Mesh BLAST u6me Installation Guide**

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Part # 220-01228-10





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## About this Guide

This document provides general installation practices for the Calix GigaSpire Mesh BLAST u6me (Model # GM2037).

This document also provides a general description of the products, and guidance for planning, site preparation, power installation, splicing to the outside plant, and basic troubleshooting.

### Intended Audiences

This document is intended for use by network planning engineers, outside plant engineers, field support personnel, and craft personnel responsible for installation and maintenance of Calix premises equipment.

### Federal Communications Commission (FCC) Statement

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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. Operation of this equipment in a residential area may cause harmful interference; the user will be required to correct the interference at his expense.

### Safety Notices

This document uses the following safety notice conventions.



**DANGER!** Danger indicates the presence of a hazard that will cause severe personal injury or death if not avoided.



**WARNING!** Warning indicates the presence of a hazard that can cause severe personal injury if not avoided.



**CAUTION!** Caution indicates the presence of a hazard that can cause minor to moderate personal injury if not avoided.



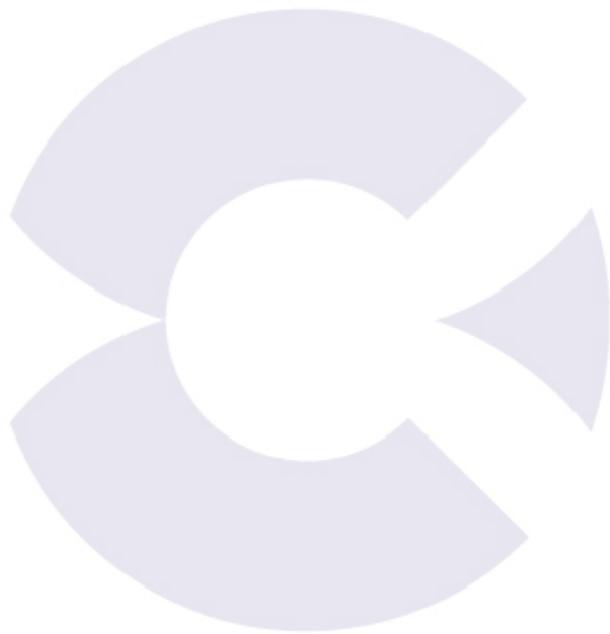
**ALERT!** Alert indicates the presence of a hazard that can cause damage to equipment or software, loss of data, or service interruption if not avoided.

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## **IMPORTANT SAFETY INSTRUCTIONS**

When using your equipment, basic safety precautions must always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- Do not use this product near water. For example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
- Use only the power cord indicated in this manual.
- For external power supplies, the external power supply used in this device is to be Class II or a Limited Power Source (LPS) power supply.





## Chapter 1

# GigaSpire Mesh BLAST u6me Overview

**REPLACE ALL OF THIS WITH U6ME OVERVIEW XXXX** The Calix GigaSpire BLAST® u4 is a new generation smart home system that extends the access network into the home and acts as a strategic location for control of the ultimate WiFi experience. In addition to supporting broadband connectivity of data and video services, this intelligent, high-performance system offers the latest 802.11ax 'Wi-Fi 6' technology. The GigaSpire BLAST u4 provides switching and routing functions that support multi-Gigabit throughput for IPTV video and data services.

**Note:** The GigaSpire BLAST u4 and the GigaSpire Mesh BLAST u4m share the same physical footprint. Mounting is identical although features vary depending on the roll the unit plays in the network.

The GigaSpire BLAST u4 is a premium smart home system that delivers the latest 'Wi-Fi 6' certified technology (802.11ax). The GigaSpire BLAST u4 uses a Gigabit Ethernet link at the subscriber's premises to provide carrier-class Wi-Fi and Gigabit Ethernet interfaces for customer multi-media devices. The GigaSpire BLAST u4 enables residential subscribers to receive Gigabit broadband data and Internet Protocol (IP) video services. Using the latest 802.11ax technology in both the 2.4 and 5 GHz radios, the GigaSpire BLAST u4 incorporates dual band 2x2 streams of Wi-Fi delivery (2x2 @ 2.4 GHz and 2x2 @ 5 GHz). In addition, with multi-user multiple-input and multiple-output (MU-MIMO) plus beamforming, the GigaSpire BLAST u4 allows service providers to extend the access network inside the home and establish a strategic location for the delivery and control of broadband services. A USB port is available for other connectivity applications.

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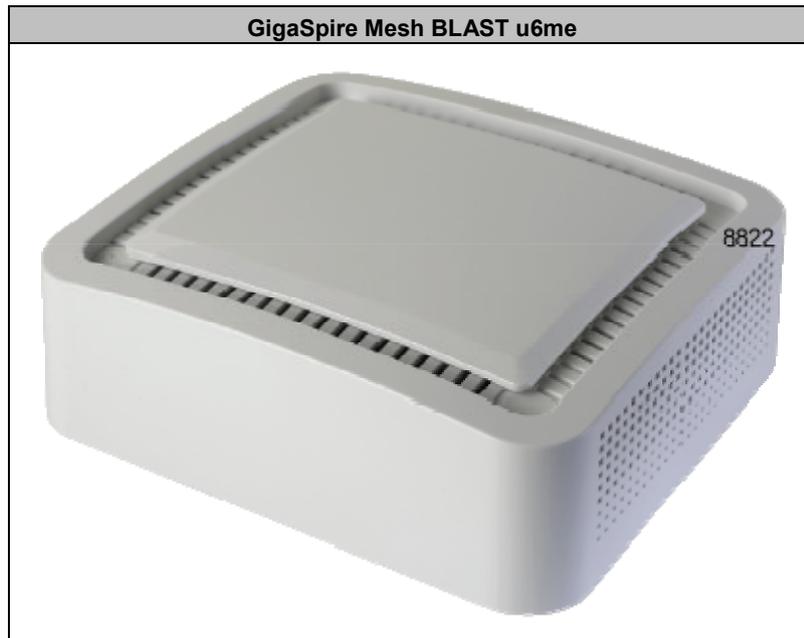
With Wi-Fi being the de facto wireless data communication technology of choice for consumers, Calix engineered the GigaSpire BLAST u4 for optimal whole-home coverage with simultaneous dual-band 2.4 GHz and 5 GHz operation and dynamic beamforming at 5 GHz. Leveraging the latest Wi-Fi 6 features, the GigaSpire BLAST u4 provides longer range, higher efficiency and less interference compared to earlier generations of Wi-Fi technology. The GigaSpire BLAST u4 also supports the entire 5 GHz band, including Dynamic Frequency Selection (DFS) channels. The GigaSpire BLAST u4 easily delivers HD and UHD (ultra-HD) video and data throughout a subscriber's home in an increasingly video-rich and mobile broadband environment.

Ensuring consumers can achieve ultra-fast Wi-Fi throughout their premises, the u4 provides the latest generation of redundant mesh via the Calix Wi-Fi 6 GigaSpire Mesh BLAST u4m. With the u4 as the hub, and the u4m as the satellite, consumers can truly gain the whole home/smart home experience. For even higher mesh performance, multiple u4m systems can be connected to the u4.

Ensuring consumers can have ultra-fast Wi-Fi throughout their premises, the GigaSpire BLAST u4 provides the latest generation of redundant mesh via the Calix Wi-Fi 6 Mesh BLAST u4m. With the BLAST u4 as the hub, and the Mesh BLAST u4m as the satellite, consumers can gain the entire home/smart home experience. For even higher mesh performance, multiple GigaMesh systems can be connected to the GigaSpire BLAST u4.

With the GigaSpire BLAST u4, Calix has redefined how to install and activate residential services at a subscriber's premises. Using the Calix Smart CommandIQ App feature and a phone or laptop, a field technician can install and apply the subscriber's service profile without special equipment or assistance from the central office. Calix also provides the innovative CSC (Calix Support Cloud (CSC)), which allows the service provider to configure, activate and upgrade the GigaSpire BLAST u4 quickly from a remote location using in-band management or TR-069. Extensive troubleshooting capabilities, remote software downloads, and easy-to-use service activation features ensure that services are delivered and maintained without needless truck rolls and hardware upgrades. Employing GigaSpire BLAST u4 systems allows service providers to reduce their operational expenses while effectively delivering the Gigabit experience to their subscribers.

EXOS is the world's only hardware independent, modular, standards-based, always-on smart home operating system. With EXOS, service providers can use the containerized architecture to quickly deploy new services that leverage a range of pre-integrated smart home solutions and thousands of smart devices (for example, enhanced parental controls or network security).



### Key Attributes - GigaSpire Mesh BLAST u6me

#### Home Gateway **-NEED TO REPLACE INFO BELOW XXXX**

- Layer 2 bridge and Layer 3 routing for High Speed Internet (HSI) data and IPTV video services
- DHCP server options
- DHCP (IPoE) and PPPoE network connections
- Network Access Translation (NAT), public to private IP addressing
- Configurable IP address schemes, subnets, static-IP addresses
- DNS server
- Bridge port assignment and data traffic mappings
- Port forwarding
- Firewall and security
- Application and website filtering
- Selectable forwarding and blocking policies
- DMZ hosting
- Parental controls, time of day usage
- Denial of service (DoS) protection
- MAC filtering
- Time/Zone support
- Universal Plug-and-Play (UPnP)

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**WI-FI**

- 2.4 GHz and 5 GHz, simultaneous dual-band
- 2.4 GHz and 5 GHz 802.11ax (Wi-Fi 6) certified, 802.11a/n/ac compatible
- 4x4 streams (2x2 @ 2.4 GHz and 2x2 @ 5 GHz)
- WPA/WPA2/WPA3; WEP 64/128 bit encryption
- PuF (Physical Unclonable Functions)
- WPS push-button
- 2x2 DL/UL MU-MIMO with beamforming
- 1024 QAM; OFDMA; BSS Coloring
- DCM (Dual Carrier Modulation)
- TWT (Target Wake Time) for IoT clients
- Wi-Fi Redundant Mesh:
  - Self Managed: self configuration, Air time fairness
  - Dynamic Mesh: load balancing, band/node steering; interference management
  - Self Healing; diagnostics; events
- 1 Gigabit Ethernet (GE) WAN interface:
  - 10/100/1000 BASE-T Ethernet, auto-negotiating
- Gigabit Ethernet (GE) LAN interfaces:
  - Two (2) ports of Multi-rate 10/100/1000 BASE-T Ethernet, auto-negotiating for residential IPTV and data services
- USB port:
  - USB 2.0 - Type A host interface
- Supports multiple data service profiles
- Traffic management and Quality of Service (QoS):
  - 802.1Q VLANs
  - 802.1p service prioritization
  - Q-in-Q tagging
  - Multiple VLANs
  - DiffServ
  - Pre-defined QoS on service type
  - LAG of GE ports
  - MAP-T
- IPTV, IGMPv2, future support of IGMPv3:
  - IGMP Snooping and Proxy

- IGMP Fast Leaves
- Gateway Management:
  - Support Cloud
  - ACS
  - Local Home Gateway GUI, access provisionable
  - Remote WAN side GUI access
  - Default username/password
- AC to 12 VDC power adapter

## Agency Listings

**FCC WARNING:** These devices comply with Part 15 of the FCC Rules and Regulations. Operation is subject to the following conditions.

This device may not cause harmful interference, and, this device must accept any interference received, including interference that may cause undesired operation.

These devices have been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules and Regulations. These limits are designed to provide reasonable protection against harmful interference when this equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions in this guide, may cause harmful interference to radio and television communications.

### Hazardous Materials

There are no hazardous materials identified for the GigaSpire BLAST u4/u4m.

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**Federal Communication Commission Interference Statement**

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC regulations restrict the operation of this device to indoor use only.

FCC regulations restrict the operation of this device to indoor use only.

The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or Communications with unmanned aircraft systems.

**IMPORTANT NOTE:****FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **24cm** between the radiator & your body.

## Application Standards

Following is a list of standards that apply to this product:

Standards		
FCC Part 15, Sub Part B, class B	UL 62368-1	EN 300 328
CAN ICES-003 Class B	CSA C22.2 No. 62368-1	EN 301 893
ANSI C63.4	IEC 62368-1	EN 301 489-1
FCC Part 15.247	ITU-T K21	EN 301 489-17
FCC Part 15.203	ITU-T K44	EN 55032 Class B
FCC Part 15.207	EN 62368-1	EN 61000-3-2
FCC Part 15. 209	IC: 4009A-U4X	EN 61000-3-3
FCC ID: 2ABLK-U4X	EN 62311	EN 50581
RSS 102	CE / RED, RoHS, WEEE, Energy	USB 2.0 Type A
RSS 247	Telcordia GR-63	EN 50564
FCC Part 15.407	Telcordia-GR-1089	CISPR 32 Class B
NEC(National Electrical Code)	Telcordia GR-950	IEEE: 802.3, 802.3AB, 302.3U, 802.11p, 802.11Q
Telcordia GR-909	Telcordia GR-1244	RCM
Telcordia GR-49		Telcordia GR-2890
Wi-Fi Alliance Certified 802.11ax		CISPR-22
		

## Radiated Emissions

- This Class-B digital device complies with radiated emissions requirements as defined in Canadian ICES-003.

## Power Supply

**Note:** When using the standard power adapter, units will be inoperable after loss of main power.

- The unit must be powered by a listed power adapter or DC power source marked "LPS" (Limited Power Source) and rated output between 12 VDC, 2 A minimum, TMA = 40° C minimum. If additional help is needed on implementing a power supply, please contact your local Calix service professional.

An external power supply is included with the following rating:

## GigaSpire BLAST u6me

- Input voltage: 12 VDC (nominal)
- 10 VDC (min.), 15 VDC (max)
- External Power Adapter: 12 VDC, 2 A



**DANGER!** Using non-approved or incorrect power adapters can result in injury.

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## Site Preparation

Before you install any BLAST device, you need to consider the routing of the power adapter cord and Ethernet cable(s) if used.

**Note:** It is critical that you maintain the proper airflow in and around the unit. These devices are designed for surface mounting only. Do not install cabinetry or other building material around the outside of the unit.

### Power Cords

In order to complete the installation, a power cord is required:

- Connectorized Power and Signal Cable - A 2-pin barrel connector to the local AC power receptacle (Type A).

### Coaxial Cables

- Note that Coaxial cable connections are to be internal connections only. Outdoor connections are not allowed.

## Before you Begin

Before starting the installation process, check that the following conditions are met:

- Ensure the site preparation steps are complete based on the model being installed.
- Ensure that all components are on-site or readily available to complete the installation.
- The customer is aware of your planned visit and will provide access to the inside of the home.

## Introduction

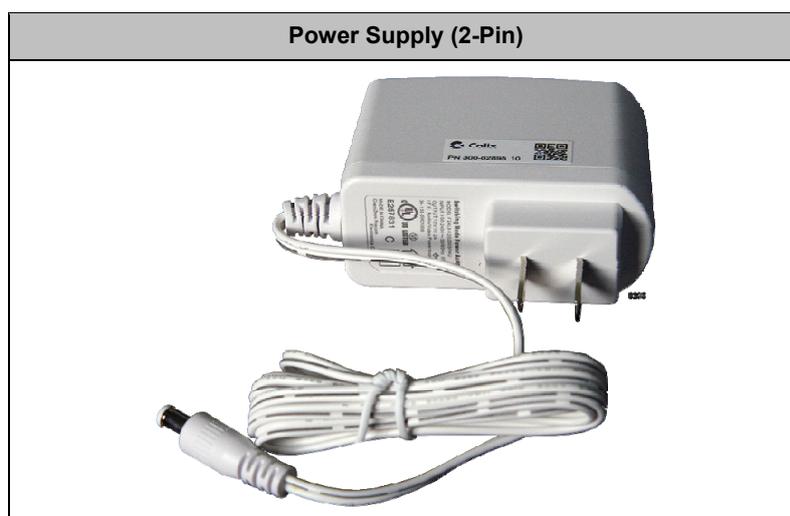
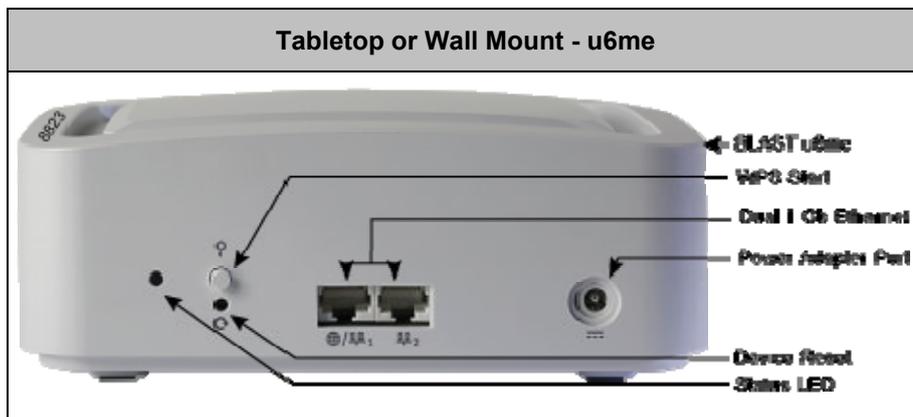
This document describes the installation of the GigaSpire BLAST u6me. The BLAST u6me is designed to be placed in a horizontal table-top configuration or can be wall mounted using the mounting holes molded into the back of the unit.

### Powering Options

Attach to any 110/220 VAC power outlet using the supplied 12 VDC wall transformer.

**Note:** For the BLAST u6me, the power cord configuration must be appropriate for use in the country where the device is being deployed.

**Note:** Only provided and approved power cords or voltage adapters should be used to connect to this product(s).





## Chapter 2

# Installation

### *Installation Tips*



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

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Follow these tips when installing a GigaSpire u6me device:

- For subscribers using data services, all data wiring inside the home must be CAT5 cable or better.
- Make sure subscriber connections are tightened properly.
- Check the contents of each box carefully as you receive them. Components may not be located where you might expect them due to certain items being tested immediately before shipment.

## About Wi-Fi Placement

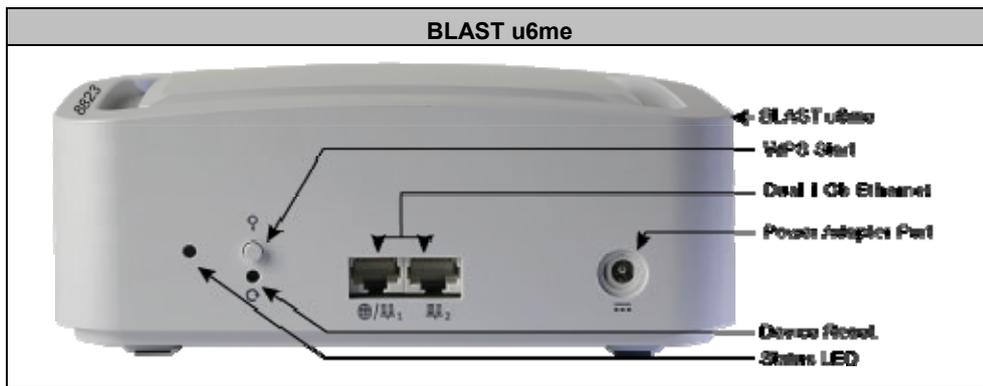
Certain building materials are particularly effective at blocking Wi-Fi signals (see table below) and should be taken into consideration when locating the GigaSpire BLAST u6me. Line of sight is not necessary since MIMO technology takes advantage of reflections in the over-the-air path to carry additional data. However, Calix recommends that when possible, Calix GigaSpires should be placed in a centralized location within the home to yield the best possible results for Wi-Fi coverage.

Building Materials and Their Effect on Wi-Fi Signals	
Material	Wi-Fi Attenuation
Wood, Drywall, Particle Board, Tile	Low
Glass	Low
Water	Medium
Bricks, Cinder Block	Medium
Plaster, Stucco	High
Concrete	High
Tinted or Low-E Glass (metalized)	Very High
Metal	Very High
<b>Note:</b> The lower the attenuation, the better the performance.	

## Installation Variables

Before installing either device, consider what additional services may be implemented. Various access points are available on the back of the unit which may or may not be used. Prior to determining the unit's final location, you need to account for the following variables:

- Optional: Where will the Ethernet cable be routed?
- What type of building material is used in this facility? Make sure you have the appropriate drills, drill bits and fasteners for routing Ethernet or power cables as they pass through walls and the like.



## Unpacking the GigaSpire u6me

Each device is shipped individually in its own carton and contains the following:

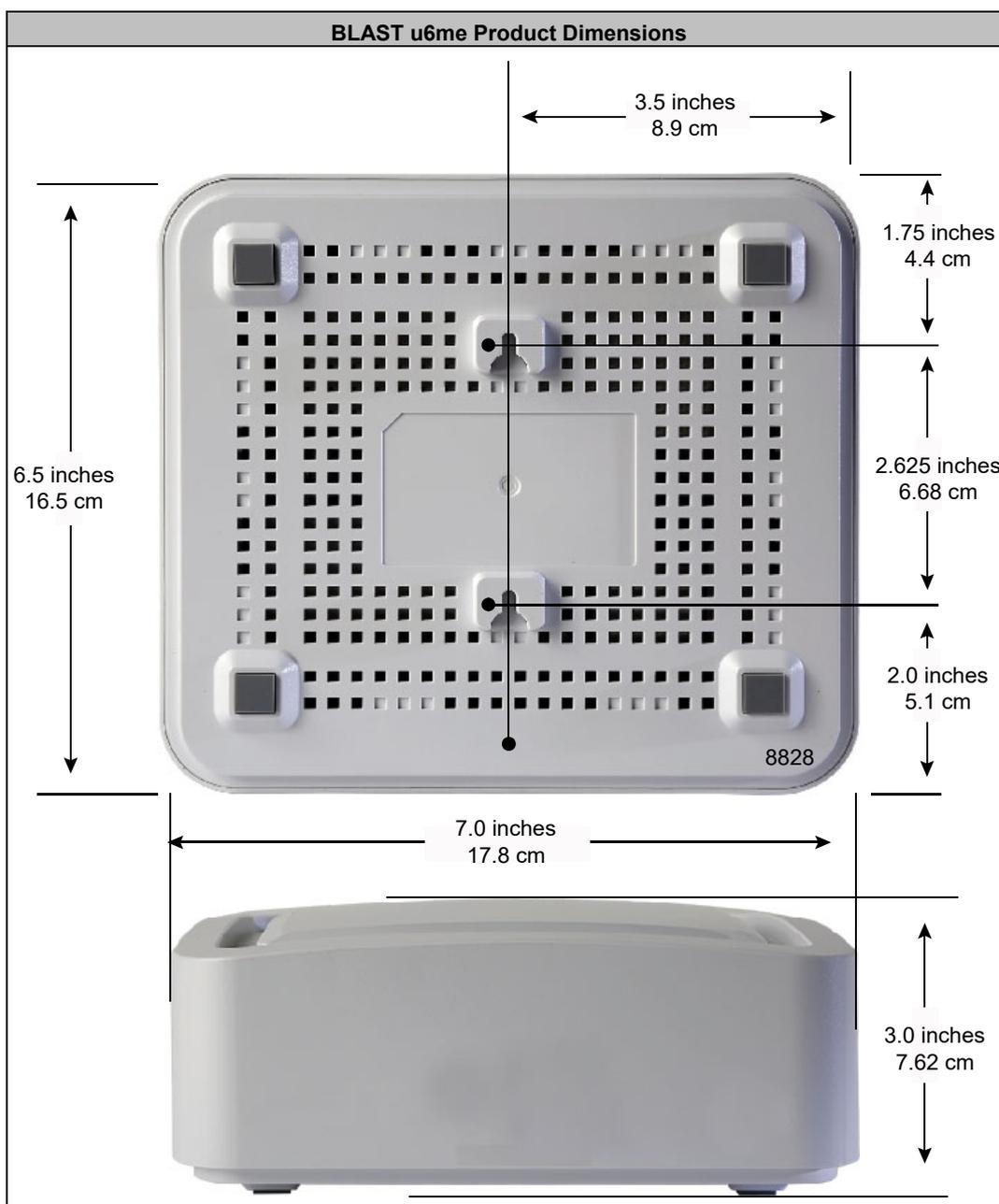
- (1) GigaSpire BLAST u6me
- (1) Power Adapter interface cord (wall wart)
- (1) Safety and Regulatory Statements Guide
- (2) Product Identification Labels with Login Credentials

After opening the carton, remove the protective packaging, ensure all components above are present, and prepare for mounting the unit.

## Tabletop/Wall Mounting Dimensions

Dimensions for tabletop or wall mounting of a GigaSpire BLAST u6me are included here for reference.

**Note:** There is no wall mount bracket necessary to mount this device. The bottom surface of the BLAST u6me includes two hanger posts to facilitate wall mounting.



## **Tabletop Mounting the BLAST u6me**

Any Calix GigaSpire BLAST u6me can be mounted flat on a tabletop. Four (4) rubberized feet are pre-installed on the bottom of the unit to provide a non-skid surface when placing the unit on a table or shelf.

Keep the following information in mind when considering tabletop mounting:

- Due to component placement inside the chassis, do not remove the rubber feet that are installed on the bottom of the unit. Locate the device on the desktop in a location that is unlikely to be bumped or jostled.
- Make sure that the Ethernet cable[s] (if used) and power supply wiring attached to the GigaSpire are secured properly and out of harms way.

**Note:** Once the unit is connected and turned up, Wi-Fi network parameters are persisted in memory. For this reason, if power is lost to the device, it will be re-discovered on the network automatically, without operator intervention.

## Wall Mounting the u6me

The Calix GigaSpire BLAST u6me can be wall mounted. Keep the following information in mind when considering wall mounting:

- Locate the unit on the wall in a location that is unlikely to be bumped or jostled.
- Make sure that the Ethernet cable[s] (if used) and power supply wiring attached to the unit are secured properly and out of harms way.

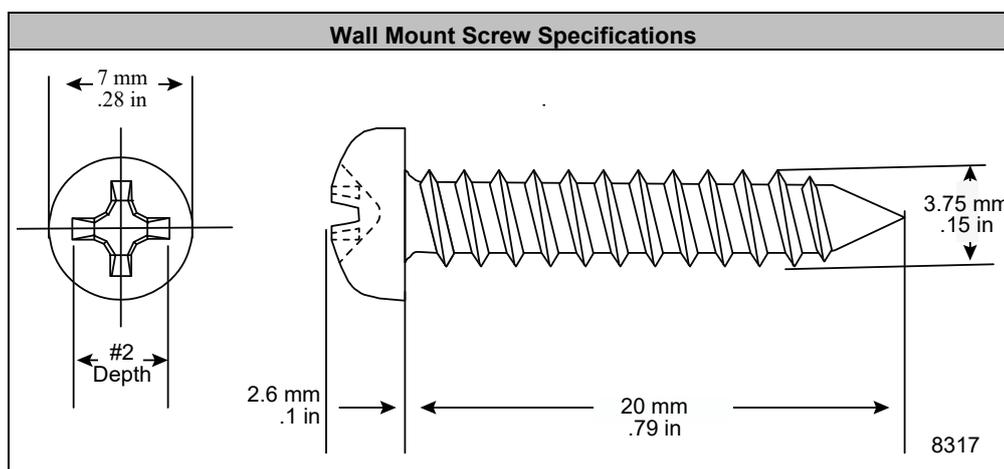
**Note:** Once the GigaSpire is connected and turned up, Wi-Fi network parameters are persisted in memory. For this reason, if power is lost to the unit, it will be re-discovered on the network automatically, without operator intervention.

### To wall mount the GigaSpire BLAST u6me

1. Find a suitable location for attaching unit to the wall. Be mindful of the power source and Ethernet cable requirements when determining a mounting location.
2. Using the template included in the back of this guide, mark the two screw locations on the wall, making sure the device will remain level after mounting.

**Note:** If attaching to sheet rock or gypsum board, Calix recommends using a wall anchoring system to ensure the bracket is securely attached to the wall.

3. Drill holes in the wall and install appropriate wall anchors if required.
4. Thread the screws into the wall anchors and tighten leaving a gap of about 1/8" between the screw head and the and the back of the unit.



## Mounting Screws

The two mounting holes on the back of the unit are designed to accommodate the following screw type:

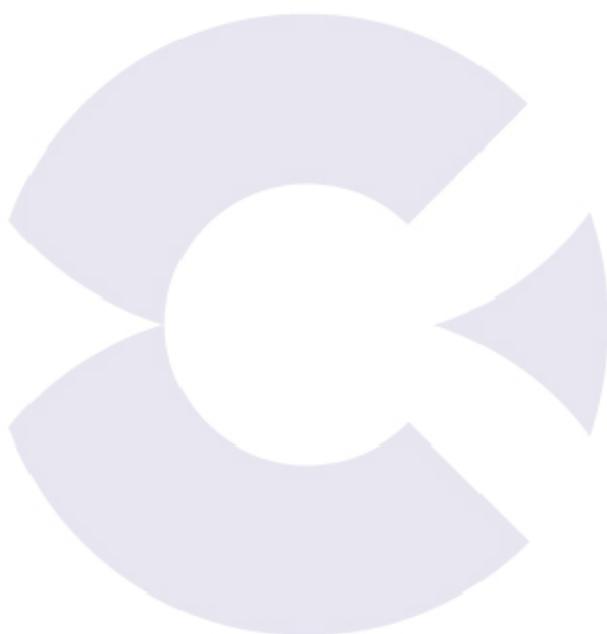
- Larger than 7mm wide (.28") and less than 14mm wide (.55")
- Screw shaft < 3mm in diameter (.12")
- Screw length > 6mm (.24") and less than 20mm long (.79")

Depending on the material you are attaching to, use a screw of sufficient length and strength to support the BLAST u6me once attached to the bracket. See below for specifications on what type of screw is recommended.

## ***Additional Mounting Considerations***

The options for mounting a GigaSpire BLAST system are many. From a best practice's standpoint, keep the following in mind:

- Calix recommends mounting the BLAST as high as possible for Wi-Fi performance reasons. However, this deployment scenario still mandates that an AC power outlet is located within the power cord distance of the Wi-Fi source. If installing in a greenfield environment (initial installation), plan on placing the GigaSpire BLAST within 4 feet of the power supply. As an alternative, longer power cords are available to extend the distance between the BLAST and the power supply.
- Calix also recommends keeping cabling neat and well secured wherever possible. A tidy installation allows for increased safety and an overall neater appearance. Common tools used for this purpose include cable ties and velcro straps for routing cable out of the way. Also, custom made wall plates are often used where the majority of cabling is hidden behind a wall.







## Chapter 3

# Final Set-up and Testing

### ***BLAST u4/u4m Reset Behavior***

Calix EDGE systems support a variety of system reset functions and provide multiple methods for invoking each of these functions, as described in this topic. Calix defines these functions and behaviors as follows:

- 1.** Basic reset (reboot): Restarts the unit.
- 2.** Configuration reset: Resets the RG configuration settings (those visible to the subscriber/Admin user in the EWI, such as SSIDs, LAN IP scope, etc.) to defaults, but retains operator-configured management settings (those visible only to the Support user in the EWI, such as ACS URL and SPID).
- 3.** Factory reset: Resets the router (and any attached mesh satellites) to factory default settings. A factory reset also removes devices from network management systems such as Calix Support Cloud and the Smart Home Admin Dashboard, where applicable.

These reset functions can be used as troubleshooting and/or operations tools for reset/removal scenarios, whether the device is deployed as a Residential Gateway or as a subtended WAP or Satellite (GigaSpire BLAST or GigaMesh). Hardware-invoked resets behave differently depending on how long the reset button is pressed, as described below.

Function	Where Performed
Basic Reset <sup>1</sup>	Hardware: Press Reset button once for 1 second
	Software: EWI > Utilities > Reboot
Configuration Reset <sup>2</sup>	Hardware: Press and hold Reset button for 15+ seconds
	Software: EWI > Utilities > Restore Defaults
Factory Reset	Hardware: no option
	Software (for support user only): EWI > Support > Tools > Smart Activate > Factory Reset
<p><b>Note:</b> For operators with cloud based network management systems, remote resets can be invoked as follows:</p> <p>1  <a href="https://www.calix.com/content/calix/en/site-prod/library-html/software-products/cloud/nm/support/help/index.htm#88688.htm">https://www.calix.com/content/calix/en/site-prod/library-html/software-products/cloud/nm/support/help/index.htm#88688.htm</a> System Tools &gt; Reboot</p> <p>(<a href="https://www.calix.com/content/calix/en/site-prod/libraryhtml/software-products/cloud/nm/support/help/index.htm#88688.htm">https://www.calix.com/content/calix/en/site-prod/libraryhtml/software-products/cloud/nm/support/help/index.htm#88688.htm</a>)</p> <p>2 System Tools &gt; Factory Reset  <a href="https://www.calix.com/content/calix/en/site-prod/libraryhtml/software-products/cloud/nm/support/help/index.htm#8687.htm">https://www.calix.com/content/calix/en/site-prod/libraryhtml/software-products/cloud/nm/support/help/index.htm#8687.htm</a> (option actually performs just a configuration reset)</p>	

The table below provides additional notes for each Reset event:

BLAST Reset Behavior			
Reset Type	How Invoked	Expected Behavior	Notes
Basic Reset - Hardware	Press Reset button	<ul style="list-style-type: none"> <li>Router or satellite reboots</li> <li>RG configuration and subscriber's custom settings persist</li> </ul>	Pressing the Reset button performs a standard power cycle. All configuration information persists. Device goes off-line for 2-3 minutes while it completes the reboot process.
Basic Reset - Software	EWI > Utilities > Reboot	<ul style="list-style-type: none"> <li>Router reboots</li> <li>RG configuration and subscriber's custom settings persist</li> </ul>	Subscriber (Admin user) has access to the EWI to invoke a soft reset. All configuration information persists. Device goes off-line for 2-3 minutes while reboot process completes.
Configuration Reset - Hardware	Press and hold Reset button (10+ seconds)	<ul style="list-style-type: none"> <li>Router or satellite reboots</li> <li>RG configuration and subscriber's custom settings reset to defaults</li> <li>Service provider applied management settings persist</li> </ul>	Reset button must be pressed and held until LEDs flash (after about 10 seconds). Device goes off-line while it completes the reboot process. Residential Gateway (RG) configuration settings include all subscriber- configurable information such as login credentials for Admin user, SSIDs, LAN IP scope, etc., all of which reset to defaults.
Configuration Reset - Software	EWI > Utilities > Restore Defaults	<ul style="list-style-type: none"> <li>Router reboots</li> <li>RG configuration and subscriber's custom settings reset to defaults</li> <li>Service provider applied management settings persist</li> </ul>	Subscriber (Admin user) has access to the EWI to invoke a configuration reset. Device goes off-line while it completes the reboot process. Residential Gateway (RG) configuration settings include all subscriber- configurable information such as login credentials for Admin user, SSIDs, LAN IP scope, etc., all of which reset to defaults.
Factory Reset - Software	EWI > Support Menu > Tools > Smart Activate > Factory Reset	<ul style="list-style-type: none"> <li>Router reboots</li> <li>RG configuration settings reset to factory defaults</li> <li>Service provider applied management settings reset to factory defaults</li> </ul>	Function available only to operators via EWI Support user (not available to subscriber/Admin user). Service provider management settings include all information visible on the EWI Support tab, such as login credentials for Support user, TR-69 ACS URL and login credentials, SPID, etc., all of which reset to defaults.



## Powering the GigaSpire BLAST u6me

The information below describes the powering of any GigaSpire BLAST.

### To power up the BLAST u6me

1. Locate the 12 VDC Power Adapter.
2. Attach one end (2-pin barrel connector) to the rear of the device.
3. Plug the other end into any available 110/220 VAC wall outlet.
4. The GigaSpire BLAST begins its start-up sequence (Flashing amber LED).



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## Connecting to the Internet

The method by which the GigaSpire BLAST u6me is deployed will impact the internet connection. With power applied to the BLAST, perform the following steps based on the role the device plays in the network.

### Connecting as a MESH point

If the unit is configured as a MESH point, connect an Ethernet cable from it's WAN port to another GigaSpire or wirelessly connect the two devices.

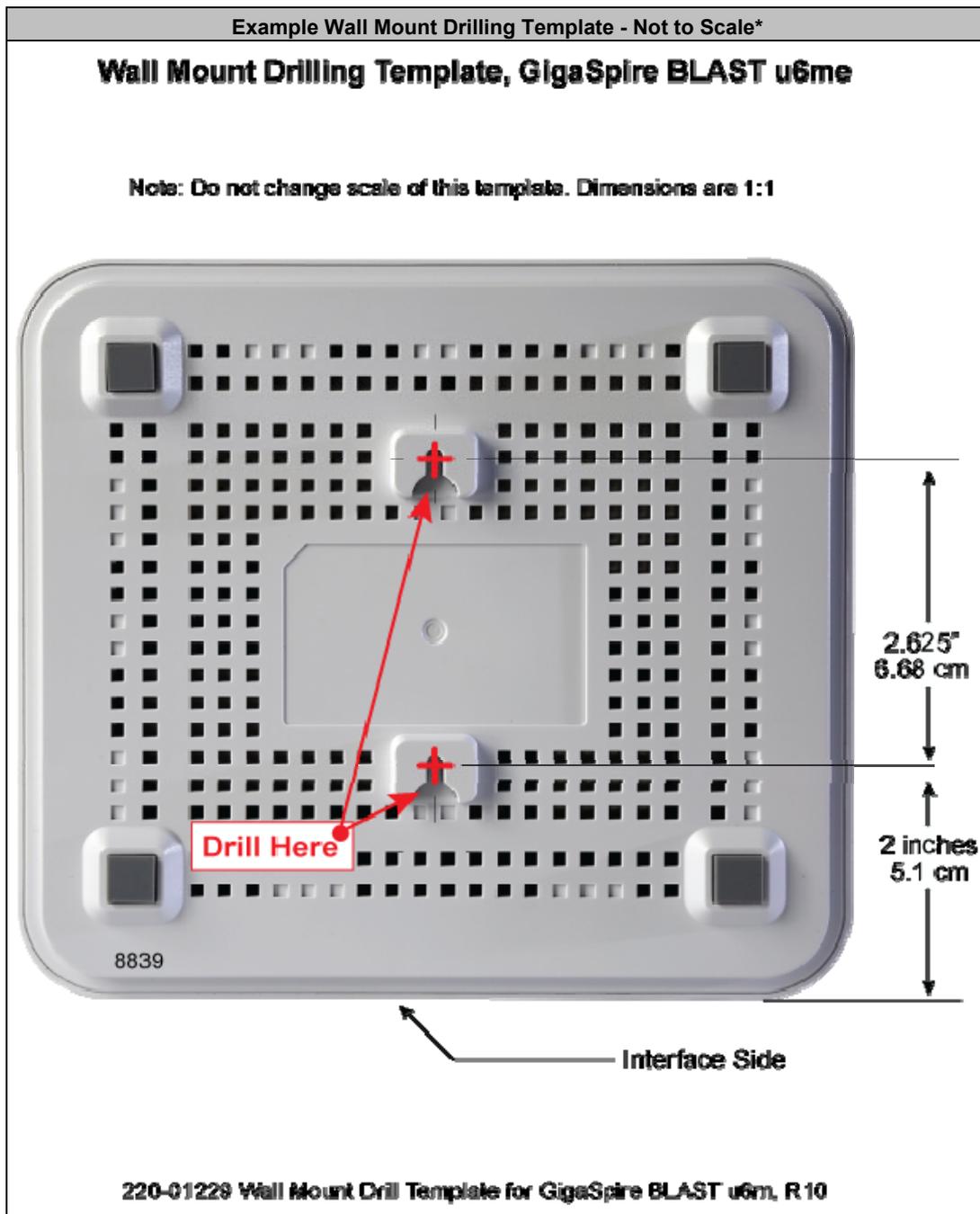
#### Additional Comments

- Once your units LED turns GREEN, you are connected to the upstream WAN modem.
- At start-up, Wi-Fi radios are defaulted to on.
- To configure your BLAST device, connect an Ethernet cable between your PC and one of the LAN ports of the and enter the default IP Address of the device (192.168.1.1) into your browser.
- Wi-Fi radios can be configured using the default settings:
  - SSID: Printed on the product label in the gift box. (CXNKxxxxxxx)
  - Number of radios: 2 (2.4 GHz and 5 GHz)
  - Wi-Fi Protocol supported: 802.11a/b/n/g/ac/ax
  - Credentials: Login and password printed on the product label in the gift box.

## ***Wall Mount Template***

Inside the giftbox of the BLAST u6me, a printed wall mount template is included. This template is scaled to size and should be used when marking the hole locations for the wall mount option. The figure below is a representative example of the template but should not be used as it is not scaled appropriately.

For additional information, refer to *Wall Mounting the u6me* (on page 23) located in the Installation chapter of this guide.



\* - Template inserted in the gift box is to scale and should be used for installation purposes. The above template is an example only and should not be used at installation.