GS2020E GigaSPIRE BLAST
GS2025E GigaSPIRE GO
GS2026E GigaSPIRE MAX
Quick Start Guide

This document provides general installation practices for the family of three Calix GigaSPIRE Service Delivery Platforms.

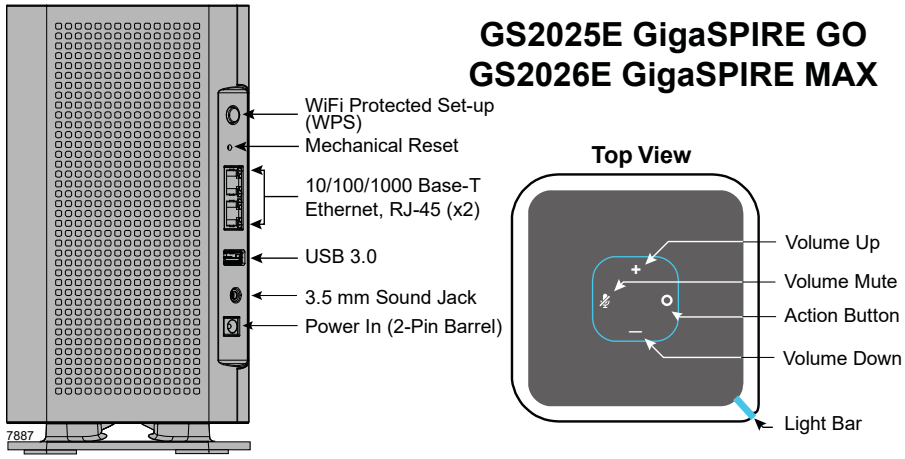
This document also provides guidance for site preparation, installation, and basic troubleshooting.

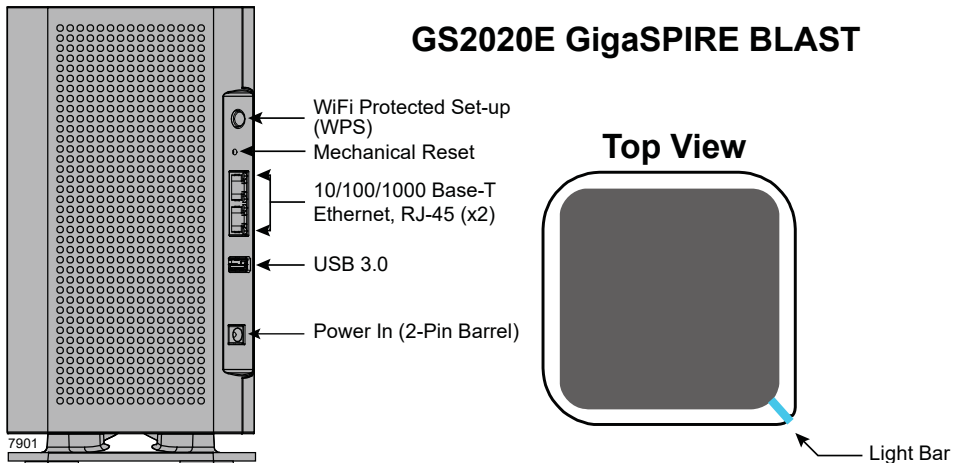
Scan the QR code at left to access the installation instructions for this product. All product documentation is available online from the Calix Resource Center (support.calix.com).

Package Contents

- ☑ GigaSPIRE - Model GS2020E, GS2025E, or GS2026E
- ☑ Power adapter with cord
- ☑ GigaSPIRE Quick Start Guide (this document)
- ☑ Alexa Set-up Guide (Model GS2025E and GS2026E only)

A Quick Look





Brief Overview

The GigaSPIRE family offers the following key features:

Dual Functionality - The GigaSPIRE family may be implemented as either a residential gateway or can be deployed as a Wi-Fi Mesh point. The role the GigaSPIRE plays in your whole home solution is dependent on the software installed at the time of deployment.

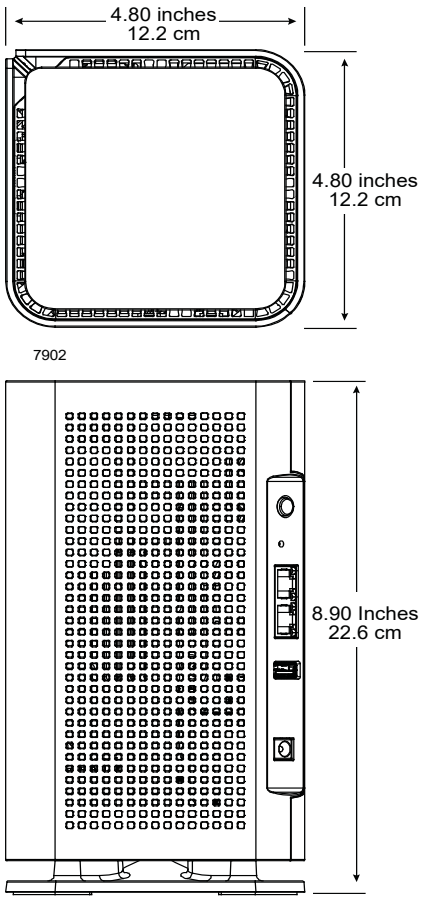
Extremely User-Friendly Installation - Using the Calix Smart Activate feature with a buttset or laptop, technicians can install and apply subscriber service profiles

without assistance from the central office. Remotely manageable using Compass software (including Consumer Connect Plus), configuration, activation and software upgrades are easily accomplished via in-band management or a standard TR-069 interface.

GigaBit Subscriber Experience - The GS2025E AND GS2026E extends the access network into the home for controlling the Internet of Things (IoT) and voice recognition experience. In addition to supporting broadband connectivity for data and video services, the GS2025E and the GS2026E service platforms provides a premises-based Wireless Access Point (WAP) that supports IoT connectivity, and the 802.11ax Wi-Fi technology with voice recognition capabilities.

Mounting the GigaSPIRE

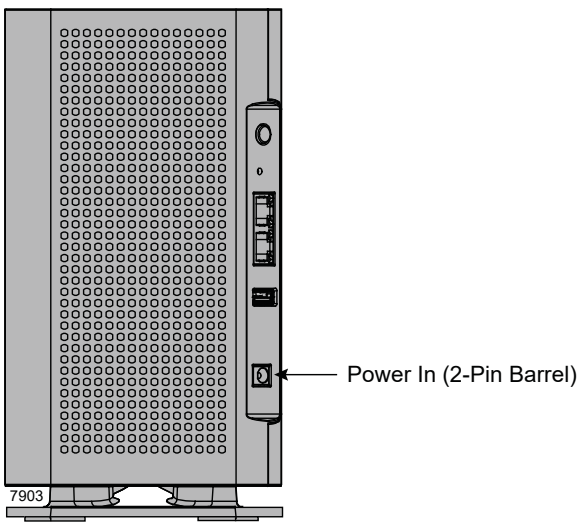
All GigaSPIRES must be placed on a tabletop or shelf in an upright orientation.



Powering the GigaSPIRE

To power the equipment:

1. Remove any protective packaging or film prior to powering up the GigaSPIRE.
2. Plug in the power adapter to any available wall socket and attach the other end to the power port. Note the power cord is 5 feet (1.5 meters) long.



Managing the GigaSPIRE

To manage the functions of the GigaSPIRE, an Embedded Web Interface (EWI) is included. To access the EWI of the GigaSPIRE, connect an Ethernet cable from your PC to the GigaSPIRE and enter the default IP Address of the device (192.168.1.1)

Managing Wi-Fi Services

Out of the box, the GigaSPIRE Wi-Fi radios are enabled. After power is applied, the Wi-Fi radios are functional using the following default settings.

- SSID: Printed on product label (CXNKxxxxxxxx)
- Number of Radios: 2 (2.4 GHz and 5 GHz)
- Wi-Fi Protocol:802.11a/b/n/g/ac/ax
- Credentials: Login and password printed on label

Connecting the GigaSPIRE to your Network

To complete the network connection, two options exist:

1. If the GigaSPIRE is configured as a Residential Gateway, connect an Ethernet Cable to it's WAN port from the WAN modem (ONU, cable modem, DSL modem and the like).
2. If the GigaSPIRE is configured as the MESH point, either connect an Ethernet cable from its WAN port to another GigaSPIRE (RG) or wirelessly connect the device.
3. Once connected using either method, the GigaSPIRE can be configured via the EWI.

About Interactive Voice Recognition (IVR)

The GS2025E and GS2026E GigaSPIRE supports Amazon Alexa IVR and is compatible with the following languages:

English (US/UK/CAN)	Australia	India

The top panel includes controls for managing the IVR functions on these models. Four rocker buttons control:

- Volume Up and Down
- Microphone Mute
- Action Button

Note that the GigaSPIRE model GS2020E does not support IVR and IoT functionality.
Refer to the Alexa Start-up Guide for additional information.

Supported Use Cases

The GS2025E and GS2026E GigaSPIRE supports the following use cases:

- GigaBit Wi-Fi Whole Home Coverage - Whole Home Coverage means other forms of home networking are not needed (i.e., MoCA or PLC).
- GigaBit Wi-Fi Whole Home Coverage with IVR - Amazon Alexa application available anywhere in the home where a GigaSPIRE is present. (Not supported on GS2020E)
- GigaBit Wi-Fi Whole Home Coverage with IVR and Internet of Things (IoT) - Smart Home technology including Zigbee, Z-Wave, and Broadband Loop Emulation (BLE). (Not supported on GS2020E)

Potentially Explosive Atmosphere

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

Atmosphère potentiellement explosive

N’utilisez pas le GigaSPIRE 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.

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

Power Supply

- Ensure that a suitable AC power outlet is situated near the GigaSPIRE 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 GigaSPIRE.
- 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 GigaSPIRE.

This GS2026E/GS2025E/GS2020E must be powered by
Frecom F60-120500SPA or equivalent
UL Listed LPS power source rated at:
Input: 90-264 VAC, 47/63 Hz, 1.6A,
Output: Nominal 12 VDC, 5A Minimum, 60W

Alimentation électrique

- Assurez-vous qu'une prise de courant C.A. appropriée est située près du GigaSPIRE 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 GigaSPIRE.
- Ne modifiez jamais le câble d'alimentation. Si nécessaire, faîtes 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 GigaSPIRE.

L'adaptateur électrique suivant est qualifié pour être utilisé avec le GigaSPIRE
Ce GigaSPIRE doit être alimenté par un adapteur Frecom F60-120500SPA ou une source d'alimentation équivalente certifiée UL LPS de capacité:
Entree: Input: 90-264 VAC, 47/63 Hz, 1.6A,
Sortie: Valeur nominale 12 VDC, 5A Minimum, 60W

Children

Do not allow children to play with the GigaSPIRE. 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 - 10,000 feet altitude.

Open Source Software Utilization Notice

The GigaSPIRE family 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.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

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 **27**cm between the radiator & your body.

Industry Canada statement:

This device complies with ISED's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d' ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Caution :

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

(iii) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée pour l'exploitation point à point et l'exploitation non point à point, selon le cas;

(iii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 33cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 33 cm de distance entre la source de rayonnement et votre corps.