A blue-tinted photograph of a man and a woman looking at a screen. The man is standing and leaning over the woman, who is sitting and smiling. Both are wearing glasses.

# Calix EDGE Systems

Your subscribers used to look to the consumer electronics industry for cutting-edge technology. Now, cutting edge comes exclusively from you, the service provider.

## GIVE YOUR SUBSCRIBERS THE ULTIMATE WI-FI EXPERIENCE. IT'S A BLAST!

Consumers of telecommunications services have different needs, based on the size of their residence, the number of connected devices they own, and the types of services and applications that they consume.

It is this diversity that inspired Calix to expand our portfolio of EDGE Systems; the GigaSpire BLAST portfolio (Figure 1).



Figure 1: Calix offers a portfolio of GigaSpire BLAST systems, giving you the flexibility to offer the ideal system, based on your subscribers' unique requirements.

## RIGHT-SIZED SYSTEMS FOR EVERY HOME

The future of the subscriber premises is found in the most advanced EDGE Systems on the market. Calix offers a full portfolio of GigaSpire BLAST systems, giving you the flexibility to offer the ideal system, based on your subscribers' unique requirements.



### GigaSpire BLAST u6 systems

The GigaSpire BLAST u6.1 and u6.2 systems serve the growing demand for Wi-Fi 6 with the right mix of industry-leading speed, design and expandability.

- The GigaSpire BLAST u6.1 features a 6x6 antenna array, with the newest available Wi-Fi 6 chipset, four (4) GigE LAN ports, two (2) POTS ports, and one (1) GigE WAN port.
- The GigaSpire BLAST u6.2 is nearly identical to the GigaSpire BLAST u6.1, but features a WAN port that delivers a 2.5 Gbps connection; making it ideal for broadband service providers (BSPs) looking to future proof their premises deployments with XGS-PON.
- The GigaSpire BLAST u6x, available in two form factors and colors, is the world's first carrier-class, universal Wi-Fi 6 system designed to have a 10-year lifespan. It also features an SFP+ cage supporting multiple WAN connectivity options: GPON, 1 or 10 GigE copper, 1 or 10 GigE Active Ethernet. An XGS PON module is coming soon. With no SFP module inserted, one of the four LAN ports is configurable to WAN.

### GigaSpire BLAST u4 systems

The GigaSpire BLAST u4 and the GigaSpire BLAST u4m, feature consumer cool design and a smaller form factor that's ideal for subscribers living in smaller homes, apartments, or condos.

- The GigaSpire BLAST u4, powered by Calix Experience Innovation Platform, acts as the subscriber's primary gateway and features a 4x4 antenna array with the newest available Wi-Fi 6 chipset, two (2) GigE LAN ports, and one (1) GigE WAN port.
- The GigaSpire BLAST u4m is a Wi-Fi 6 mesh satellite that can be deployed using either a wired or wireless connection to any Calix GigaSpire BLAST system. The GigaSpire BLAST u4m features the same 4x4 antenna array as the GigaSpire BLAST u4, with the newest available Wi-Fi 6 chipset, and one (1) GigE port that can serve either fronthaul or backhaul traffic (auto-detecting).

## OWN THE SUBSCRIBER EXPERIENCE, ELEVATE YOUR REVENUE, AND REDUCE INTEGRATION TIMES

Today, most BSPs focus on the delivery of high-speed Internet services, differentiating from the competition based on factors like speed and price. Others look to deploy powerful Wi-Fi systems—like the GigaSpire BLAST portfolio—allowing them to deliver additional differentiated value, alongside increased throughput and expanded coverage.

The limitation of a singular focus on hardware, however, is that once installed, the traditional residential gateway that has been used for decades cannot evolve. It is a monolithic system with little ability to change. By adopting a premises platform, which runs on top of cutting-edge hardware, the residential gateway is transformed into a dynamic system that can be improved and enhanced.



### Take control of the experience

The Calix Experience Innovation Platform transforms existing business models, taking advantage of the power of software with:

- **Hardware independence:** the software layer is abstracted from the hardware, allowing for an accelerated time to market because the containerized architecture allows for development and testing of features to be performed independently.
- **Services abstraction:** provide consistent and instantaneous availability across all products, simplifying software validation, and allowing feature mobility from one device to another.
- **Modular architecture:** ensure that changes to one function do not impact other system functions.

The Calix GigaSpire BLAST portfolio of Wi-Fi systems are not traditional Wi-Fi gateways; they are powerful EDGE Systems. You can deploy GigaSpire BLAST systems and sleep better at night knowing that the systems you have deployed in your subscribers' homes are not static pieces of hardware. Instead, they are dynamic systems that, thanks to the power of the Calix Experience Innovation Platform, can be improved and enhanced, adding new functionality that can generate additional revenue for years to come.

## REVENUE EDGE PROVIDES THE FOUNDATION TO TRANSFORM YOUR BUSINESS

The Revenue EDGE is the industry's only solution that is designed to deliver managed services that delight your subscribers and crush your competition.

You can think of the expanded portfolio of EDGE Systems as storefronts (see Figure 2), that allow you to offer applications that are designed to improve the subscriber experience and generate additional revenue, including CommandIQ®, ProtectIQ™ and ExperienceIQ™.

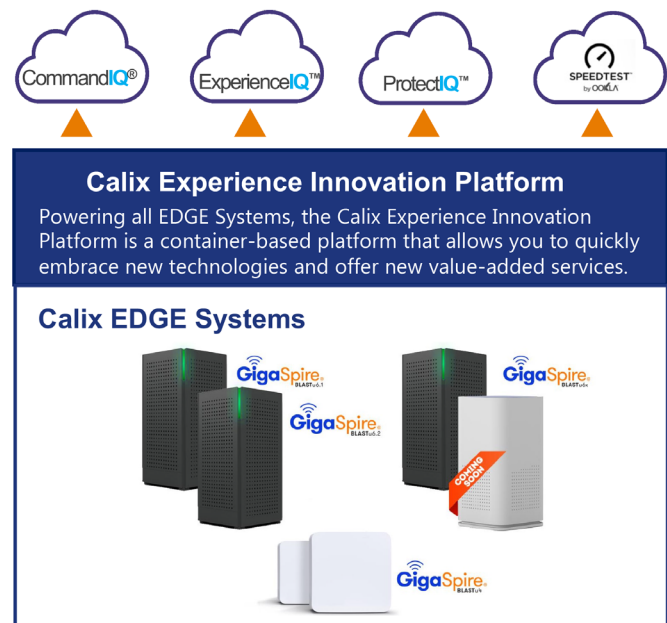


Figure 2: GigaSpire BLAST systems, powered by the Calix Experience Innovation Platform, are the foundation of the Revenue EDGE, the industry's only solution designed to deliver managed services that delight your subscribers.



By adding your logo to the GigaSpire BLAST u6.1, u6.2, and u6x systems (as shown in Figure 3), you can also place your brand at the center of the subscriber experience.



Figure 3: The side and top plates on the GigaSpire BLAST u6.1, u6.2, and u6x systems can be removed and replaced with branded plates.

## COMMANDIQ PROVIDES CONTROL AT YOUR SUBSCRIBERS' FINGERTIPS

The CommandIQ app is a critical empowerment tool for the subscriber experience. After completing a simple onboarding process, subscribers can change the name and password associated with their home Wi-Fi network, see all of their connected devices, set-up a guest network for visitors, implement profiles to toggle devices off/on, run speed tests, and more.

In addition, all GigaSpire BLAST systems support the Revenue EDGE Suites; ProtectIQ™ and ExperienceIQ™

### ProtectIQ

ProtectIQ is a network-level security application that provides malicious website protection, anti-virus and anti-ransomware packet inspection, and intrusion detection.

When enabled inside the Calix CommandIQ app, ProtectIQ proactively monitors network traffic coming into your subscribers' homes, automatically blocking anything that looks suspicious. Installed inside a GigaSpire BLAST system, ProtectIQ is the optimal point at which to establish and enforce a home perimeter layer of security and privacy.

### ExperienceIQ

ExperienceIQ provides your subscribers an extensive set of parental controls that allow them to easily create and enforce online rules for the users and devices in their home networks. It also gives them peace of mind by protecting their children from inappropriate or harmful content.





When enabled inside the Calix CommandIQ app, ExperienceIQ allows subscribers to create a profile for each member of the household and then associate specific devices with it. With the profiles created, subscribers can then take various protective actions from the convenience of the app. These include pausing the Internet connection for individual devices, blocking and filtering content and applications, and scheduling specific times of day during which Internet and application usage is limited or blocked for individual users.

## **CONNECT AMERICA FUND (CAF) PERFORMANCE TESTING**

With the GigaSpire BLAST systems, and Calix Support Cloud, you can not only ensure compliance with the FCC-required testing, but also utilize built-in intelligence and tools to continuously improve the subscriber experience.

If you are seeking further assistance with the compliance process, Calix has announced a Calix Managed Services offering and updated educational training for Calix Support Cloud, designed to help implement your testing framework. Calix has been an early, active participant in providing a testing solution that is ready months ahead of the FCC mandated deadline.