HPE Aruba Networking 100 Series Cellular Bridge

Cloud-managed 5G cellular wireless bridge for fast, reliable 5G connectivity

Key features

- Cloud-managed 5G cellular wireless fixed access for primary, secondary, or backup internet connectivity

- Certified[1] by major public and regional cellular providers, including the First Responder Network Authority (FirstNet)

- Support for private cellular including CBRS bands

- Option to connect using nano-SIM or eSIM[2] technologies

- Streamlined cloud-based management and control with new HPE Aruba Networking Central

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[1] Certification with Verizon underway.

[2] Feature available in future software release.

[3] This device does not deliver a private cellular network; it acts as a bridge for HPE edge devices to provide primary or secondary cellular connectivity by interoperating with public or private networks.

Designed for primary or backup cellular WAN connectivity, the HPE Aruba Networking 100 Series Cellular Bridge provides fast and reliable 5G fixed wireless access for mission-critical use cases. Ideal for remote locations, branch offices, and pop-up sites, this cellular bridge[3] supports 5G across major public and private cellular including CBRS, enabling reliable internet services with choice of connectivity.

The HPE Aruba Networking 100 Series Cellular Bridge[3] is ready for quick deployment with simple installs enabled by cloud-based HPE Aruba Networking Central that streamlines IT operations with unified infrastructure management across wired, wireless, and SD-WAN with intelligent automation and AI insights.

The HPE Aruba Networking 100 Series Cellular Bridge offers peace of mind with a reliable, high-speed internet connection for business continuity and the simplicity of a single vendor solution with a full enterprise networking portfolio that works together.

5G cellular connectivity for branch offices

Distributed branch offices are undergoing a digital transformation to meet the evolving business objectives and to handle mission-critical applications. This means enterprise branch offices must improve their network operations, deploy new services faster, and deliver an enhanced and secure user experience. What they need is an optimized, high-bandwidth, secure, and easy-to-deploy solution. The HPE Aruba Networking 100 Series Cellular Bridge provides convenient primary or backup cellular connectivity to branch offices and remote sites.

This series can be deployed with HPE Aruba Networking EdgeConnect SD-Branch gateways and connected through fast 2.5 Gbps Ethernet links. This cellular bridge, combined with HPE Aruba Networking EdgeConnect SD-Branch, encompasses each element within a branch — WAN, WLAN, wired, and security — to address enterprise network connectivity and security needs. The HPE Aruba Networking 100 Series acts as a bridge for other HPE edge devices to provide primary or secondary cellular connectivity by interoperating with public or private networks (it does not deliver a private cellular network).

Key features

- High-speed wired connectivity with 2.5 Gbps Ethernet ports

- Compact and fanless form factor with internal antennas

- Conveniently powered by PoE (802.3at) or DC power (DC power adapter sold separately)

- Additional environmental protection with optional IP55 transformation kit

Fast and flexible connectivity

The HPE Aruba Networking 100 Series Cellular Bridge is designed to support both nano-SIM and eSIM technologies (eSIM support is planned for future software release). In addition, the HPE Aruba Networking 100 Series Cellular Bridge includes two 2.5GbE ports ideal for fast and flexible wired connectivity to edge devices.

Figure 1. Back of HPE Aruba Networking 100 Series Cellular Bridge

Trusted Platform Module (TPM)

For enhanced device assurance, the HPE Aruba Networking 100 Series Cellular Bridge includes an installed TPM for secure storage of credentials, keys, and boot code.

Kensington lock slot

The HPE Aruba Networking 100 Series Cellular Bridge is equipped with a Kensington security slot for additional security.

AI-powered cloud management

HPE Aruba Networking Central is an AI-powered solution that simplifies IT operations, improves agility, and reduces costs by unifying management of all network infrastructure. Built for enterprise-grade resiliency and security while simple enough for smaller businesses with limited IT staff, HPE Aruba Networking Central is your single point of visibility and control that spans the entire network — from branch to data center, wired and wireless LAN to WAN. Visit HPE Aruba Networking Central for more details.

Next gen wireless operating system

Cloud-native HPE Aruba Networking Wireless Operating System (AOS-10) is the distributed network operating system working with HPE Aruba Networking Central that acts as the control layer for HPE Aruba Networking products.

Due to its flexible architecture, IT teams can deliver reliable and secure wireless connectivity for small offices, mid-sized branches, large campus environments, and remote workers. Working in tandem with cloud-native HPE Aruba Networking Central, AOS-10 provides the WLAN management and control to deliver greater scalability, security, and AI-powered optimization. AOS-10 features an enhanced connection mechanism to HPE Aruba Networking Central that improves performance and reduces latency for a more responsive experience.

Simplified, flexible consumption

The HPE Aruba Networking 100 Series Cellular Bridge requires HPE Aruba Networking Central subscription-based licenses, which are purchased on a per-device basis. Licenses are available in 1-, 3-, 5-, 7-, and 10-year increments. Read the HPE Aruba Networking Central SaaS Subscriptions ordering guide.

Warranty

Hardware: One-year parts/labor, which can be extended with a support contract.

Support

HPE Aruba Networking network devices (bridges, access points, switches, and gateways) that have an active HPE Aruba Networking Central SaaS subscription are fully supported and include:

- 24x7 priority technical support for troubleshooting

- Software updates and upgrades for HPE Aruba Networking Central and hardware products managed by HPE Aruba Networking Central

Technical specifications

Technical specifications	HPE Aruba Networking 100 Series Cellular Bridge
Performance	
5G SA	
Download	2.4 Gbps
Upload	900 Mbps
Supported bands	n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79
5G NSA	
Download	3.4 Gbps
Upload	500 Mbps
Supported bands	n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79
LTE	
Download	1.6 Gbps (CAT 19)
Upload	200 Mbps (CAT 18)
Supported bands	LTE-FDD: B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 29/ 30/ 32/ 66/ 71 LTE-TDD: B34/ 38/ 39/ 40/ 41/ 42/ 43/ 48 LAA: B46
WCDMA	
Download	42 Mbps
Upload	5.76 Mbps
Supported bands	B1/ 2/ 4/ 5/ 8/ 19
Interfaces and indicators	
Form factor	Desktop (wall mount with kit sold separately)
Subscriber Identity Module	1x Nano SIM 1x eSIM[4]
Interface	2x 2.5 Gbps
Data port	1x USB-A
Console port	1x USB-C
System LED	Yes
Cellular LED	Yes

[4] Feature available in future software release.

Technical specifications (continued)

Technical specifications	HPE Aruba Networking 100 Series Cellular Bridge
Interfaces and indicators	
HPE Aruba Networking Central LED	Yes
Power supply slots	PoE; DC power adapter (DC power adapter not included; order separately)
Physical	
Dimensions (H x W x D)	51 mm (H) x 223 mm (W) x 145 mm (D)
Dimensions with IP55 kit dimensions (H x W x D)	51 mm (H) x 223 mm (W) x 177 mm (D)
Weight	1.54 kg (3.4 lbs)
MTBF (hours at 25°C)	1,715,003
MTBF (hours at 40°C)	656,220
Environmental	
Operating temperature	0°C to +50°C (+32°F to +122°F)
Operating humidity	5% to 93%
Storage temperature	−25°C to +55°C (−13°F to +131°F)
Storage humidity	10% to 93%
Maximum power consumption with PoE	19.1W
Maximum power consumption with DC adapter	17.5W
IP rating	IP55 supported using optional IP55 Kit (purchase separately)
Regulatory and safety compliance	
Minimum supported software version	AOS 10.7.1
Regulatory SKU information	BRG5G0150
Safety certifications	UL 2043 plenum rating UL/IEC/EN 62368-1 CAN/CSA-C22.2 No. 62368-1 second edition CNS 15598-1

Technical specifications (continued)

Technical specifications	HPE Aruba Networking 100 Series Cellular Bridge
Regulatory and safety compliance	
Electromagnetic emissions certifications	FCC Part 15 Class B CISPR32 Class B EN55032 Class B ICES-003 Class B EN61000-3-2 EN61000-3-3 EN55035, EN301 489-1 /-19 /-52 KN32 Class B, KN35, KN301 489-1 /-19 /-52 EN 60601-1-2 CNS 15936
Wireless certifications	CE, FCC, IC, RCM, PTCRB, GCF, ICASA, WHQL RED Directive 2014/53/EU AT&T, T-Mobile, AT&T FirstNet, Verizon[5] Others: VCCI, NCC, ANATEL, IFETEL, CCC

[5] Certification underway.

Ordering information

Part number	Description
Select model	
S0Q22A	HPE Aruba Networking BR-150 5G Cellular Bridge
S3M47A	HPE Aruba Networking BR-150 TAA 5G Cellular Bridge
Select HPE Aruba Networking Central license	
S0Q14AAE	HPE Aruba Networking Bridge 1-year Subscription E-STU
S0Q15AAE	HPE Aruba Networking Bridge 3-year Subscription E-STU
S0Q16AAE	HPE Aruba Networking Bridge 5-year Subscription E-STU
S0Q17AAE	HPE Aruba Networking Bridge 7-year Subscription E-STU
S0Q18AAE	HPE Aruba Networking Bridge 10-year Subscription E-STU
Select accessories (optional or spares)	
S3M48A	HPE Aruba Networking BR-150 IP55 Kit
R3K00A	HPE Aruba Networking AP-AC2-12B 12V/48W AC/DC desktop style power adapter with 2.1/5.5 mm connector
S4P36A	HPE Aruba Networking BR-150 SIM Spare Tray Kit

Learn more at

HPE Aruba Networking provides high-performance network access, security, and resiliency for the campus and branch across WLAN, LAN, and SD-WAN. Find out more.

HPE.com/us/en/networking/HPE-Aruba-Networking.html

Visit **HPE.com**

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