

Overview

Aruba EdgeConnect Enterprise SD-WAN Platform

As cloud-based application adoption continues to accelerate, geographically distributed enterprises increasingly view the wide area network (WAN) as critical to connecting users to applications.

As enterprise applications migrate from the corporate data center to the cloud, private line connections such as multiprotocol label switching (MPLS) have proven to be overly rigid and expensive. With greater reliance on the internet, the opportunity to achieve “cloud speed” is better served by integrating broadband services into the WAN transport mix.

The Aruba EdgeConnect Enterprise SD-WAN platform enables enterprises to improve application performance and dramatically reduce the cost and complexity of building a WAN by leveraging broadband to connect users to applications.

Additionally, Aruba EdgeConnect Enterprise provides a secure network foundation for Zero-Trust and SASE frameworks. The solution includes a next-generation firewall with fine-grained segmentation and identity-based access control capabilities, as well as IDS/IPS and DDoS defense to protect branch locations from malicious activities. The solution also tightly integrates with leading cloud security providers to build a best-of-breed SASE architecture.

Recognized by an independent, third-party organization, Aruba EdgeConnect Enterprise has earned the Secure SD-WAN certification from ICSA Labs thanks to its advanced SD-WAN and security features.



Three components comprise the Aruba EdgeConnect Enterprise SD-WAN platform:

- **Aruba EdgeConnect Enterprise** physical or virtual SD-WAN appliances (supporting any common hypervisors and public clouds) deployed in branch offices to create a secure, virtual network overlay. This enables customers to move to a broadband WAN at their own pace, whether site-by-site, or via a hybrid WAN approach that leverages MPLS and broadband internet connectivity.
- **Aruba WAN Orchestrator**, included with the Aruba EdgeConnect Enterprise SD-WAN platform, provides unprecedented levels of visibility into both legacy and cloud applications with the unique ability to centrally assign policies based on business intent to secure and control all WAN traffic. Policy automation speeds and simplifies the deployment of multiple branch offices and enables consistent policies across applications. Moreover, customers can launch the Aruba WAN Orchestrator software directly from Aruba Central. Aruba Central provides the ability to view the enterprise-wide SD-WAN topology, health status, and alarms of all EdgeConnect Enterprise appliances in the SD-WAN in addition to other Aruba wired and wireless network devices.

Overview

- **Aruba WAN Boost** WAN Optimization is an optional WAN optimization performance pack that combines Aruba WAN optimization technologies with Aruba EdgeConnect Enterprise to create a single, unified WAN edge platform. Aruba WAN Boost allows companies to accelerate performance of latency-sensitive applications and minimize transmission of repetitive data across the WAN in a single, unified SD-WAN edge platform.
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Standard Features

Aruba EdgeConnect Enterprise Key Features

- **Business Intent Overlays:** Aruba EdgeConnect Enterprise is built upon an application-specific virtual WAN overlay model. Multiple overlays may be defined to abstract the underlying physical transport services from the virtual overlays, each supporting different QoS, transport, failover, and security policies. Groups of applications are mapped to different business intent overlays to deliver applications to users in alignment with business requirements. Business intent overlays may also be deployed to extend micro-segmentation of specific application traffic from the data center across the WAN to help maintain security compliance mandates.
- **Path Conditioning:** This feature provides private-line-like performance over the public internet. Includes techniques to overcome the adverse effects of dropped and out-of-order packets that are common with broadband internet and MPLS connections to improve application performance.
- **Tunnel Bonding:** Configured from two or more physical WAN transport services, bonded tunnels form a single logical overlay connection, aggregating the performance of all underlying links. Real-time traffic steering is applied over any broadband or MPLS link, or any combination of links based on company-defined policies based upon business intent. In the event of an outage or brownout, Aruba EdgeConnect Enterprise automatically continues to carry traffic on the remaining links or switches over to a secondary connection.
Network traffic traversing an Aruba EdgeConnect Enterprise SD-WAN can be tuned for availability, quality, throughput, and efficiency. This is accomplished on a per-application basis through the use of Business Intent Overlays. Multiple business intent policies can be created, each with its own specific bonding policy. As part of this policy definition, the customers have the ability to customize the link prioritization and traffic steering policies based on multiple criteria, including physical performance characteristics, link economics, link resiliency characteristics and customer-definable attributes.
- **First-packet iQ Application Classification:** EdgeConnect Enterprise First-packet iQ application classification identifies applications on the first packet to deliver trusted SaaS and web traffic directly to the Internet while directing unknown or suspicious traffic to the data center firewall or IDPS. Identifying applications on the first packet is especially important when branches are deployed behind Network Address Translation (NAT); the correct path must be selected based on the first packet to avoid session interruption.
- **Secure Internet Breakout:** Granular, intelligent traffic steering enabled by First-packet iQ eliminates the inefficiency of backhauling all HTTP/HTTPS traffic to the data center. The solution eliminates the potential for wasted bandwidth and performance bottlenecks for trusted SaaS and web traffic. Trusted traffic is sent directly across the Internet while unknown or suspicious traffic may be sent automatically to more robust security services in accordance with corporate security policies.
- **Best-of-Breed Secure Access Service Edge (SASE):** Aruba EdgeConnect Enterprise automates the integration with leading cloud security partner solutions from Zscaler, Netskope, Check Point, Palo Alto Networks, McAfee, Symantec, and others to create a seamless secure access service edge architecture. Automated orchestration, using a drag-and-drop interface, enables IT to configure consistent enterprise-wide security policies based on business requirements.
- **Next-generation Firewall:** Aruba EdgeConnect Enterprise includes a next-generation firewall that provides in a single entity, advanced security features such as deep packet inspection, intrusion prevention, DDoS defense, as well as application and user identity awareness. It gives IT leaders the ability to block malware from entering the network based on application, identity and context, regardless of the port/protocol used. Additionally, IT leaders benefit from an increased visibility into network activity and potential risks.
- **Fine-grained Segmentation:** Aruba ClearPass integration with EdgeConnect Enterprise augments application intelligence with the user and device identity and role-based policy, enabling fine-grained segmentation. The additional identity-based context enables consistent security policy enforcement that can be enforced network-wide, from edge to the cloud, while also accelerating troubleshooting and problem resolution.
- **Intrusion Detection and Prevention: Aruba EdgeConnect Enterprise** integrates a rule-based Intrusion Detection and Prevention System (IDPS) and utilizes the common Aruba Unified Threat Management (UTM) framework. The signature-based system monitors network traffic to find patterns that match a particular attack signature. Integrated with EdgeConnect next-generation firewall, the system allows application-level selection for inspection based on firewall zones, and provides actions such as drop, inspect and allow traffic when an intrusion is detected. Threat logging provides network and security analytics back to Aruba Central or a third-party SIEM such as Splunk to monitor threats in real time, enabling IT to quickly take action.

Standard Features

- **DDoS Defense:** Aruba EdgeConnect Enterprise detects and prevents attacks such as protocol attacks, ICMP floods, SYN floods, IP spoofing attacks and more. Using firewall protection profiles, the solution ensures strict state handling and limits the number of malicious requests with actions such as rapid aging, drop excess and block source. Actions are based on preset or configurable DoS thresholds set for traffic parameters including flow rate, concurrent flows, and embryonic flows. With firewall protection profiles, administrators can enforce different levels of DDoS protection levels across the organization by binding firewall protection profiles to firewall zones. The solution can also block a list of IP addresses from known attackers and dynamically routes the traffic over unaffected network links in case of a DDoS attack ensuring business continuity.
- **Routing:** Aruba EdgeConnect Enterprise supports standard Layer 2 and Layer 3 open networking protocols such as VLAN (802.1Q), LAG (802.3ad), IPv4 and IPv6 forwarding, GRE, IPsec, VRRP, WCCP, PBR, BGP (version 4), OSPF.
- **High Availability:** The Aruba EdgeConnect Enterprise HA cluster protects from hardware, software, and transport failures. High Availability is achieved by providing fault tolerance on both the network side (WAN) and on the equipment side. The Aruba EdgeConnect Enterprise appliances are inter-connected with a HA link that allows tunnels over each underlay to connect to both appliances.
- **Zero-Touch Provisioning:** A plug-and-play deployment model enables Aruba EdgeConnect Enterprise to be deployed at a branch office in seconds, automatically connecting with other Aruba EdgeConnect Enterprise instances in the data center, other branches, or in cloud Infrastructure as a Service (IaaS) such as Amazon Web Services, Microsoft Azure, Oracle Cloud Infrastructure and Google Cloud Platform.
- **WAN Hardening:** Each WAN overlay is secured edge-to-edge via 256-bit AES encrypted tunnels. No unauthorized outside traffic can enter the branch. With the option to deploy Aruba EdgeConnect Enterprise directly onto the internet, WAN hardening secures branch offices without the appliance sprawl and operating costs of deploying and managing dedicated firewalls.

Aruba WAN Orchestrator Key Features

- **Single Screen Administration:** Enables quick and easy implementation of network-wide business intent policies, which eliminates complex and error-prone policy changes at every branch
- **Real-Time Monitoring and Historical Reporting:** Provides specific details into application, location, and network statistics, including continuous performance monitoring of loss, latency, and packet ordering for each enterprise customers' network path. All HTTP and native application traffic are identified by name and location, and alarms and alerts allow for faster resolution of network issues
- **Bandwidth Cost Savings Reports:** Documents the cost savings for moving to broadband connectivity

Integration with Microsoft Azure Virtual WAN (vWAN) and AWS Transit Gateway Network Manager (TGNM)

By integrating the Microsoft Azure vWAN and AWS Transit Gateway Network Manager (TGNM) REST APIs, the EdgeConnect Enterprise enables customers to quickly build a cloud on-ramp and automate network deployments, removing the manual complexity of connecting branch offices to local Azure or AWS Points of Presence (PoPs). The API integration enables Aruba EdgeConnect Enterprise to identify the locations of branches in the network and determine the closest VPN Gateway (vWAN hub or head-end gateway in AWS) to connect to. Aruba EdgeConnect Enterprise automatically establishes standards-based IPsec tunnels and configuring both of the tunnel endpoints for each branch to a VPN Gateway.

Key Features:

- Automate branch connectivity to Azure and AWS Points of Presence (PoPs)
- Simplify network expansion and troubleshooting
- Faster onboarding to applications and workloads — both to and from Azure and AWS
- Optimized routing within Azure or AWS network
- Centralized Network Monitoring
- Global Network Visibility
- Cohesive policy configuration



Standard Features

Delivering the Highest Quality of Experience for Microsoft 365

With the Microsoft 365 REST API integration, Aruba continuously learns and discovers new Microsoft 365 end points and/or IP addresses and automatically re-configures Aruba EdgeConnect Enterprise if a new, closer Microsoft 365 end point becomes available. By doing so, users always achieve optimal Office 365 connectivity and performance by reducing the round-trip time (RTT). The EdgeConnect Enterprise has been independently tested and certified to support the Microsoft 365 Connectivity Principles. As a result of the independent testing, the Aruba EdgeConnect Enterprise platform has been inducted into the Microsoft Office 365 Networking Partner Program and has been given the official “Works with Microsoft 365” designation.

Extend WAN Fabric to the Cloud

Deploy virtual Aruba EdgeConnect Enterprise appliances in a public cloud such as AWS, Azure, Google Cloud Platform, or Oracle Cloud to optimize connections between branch locations and the cloud using all the SD-WAN benefits. If a brownout or blackout occurs, the remaining link(s) continue to carry traffic so that users don't notice any disruption to voice calls, audio and video conferences, or any other application. Ruggedized first mile between the branch and the public cloud delivers better network performance, reliability, and quality.

Zero Trust: Securing the Edge by Role, Context, and Application

With the increase in mobile devices, remote workers, cloud-hosted applications, and IoT connected devices, enterprises must align their security policies based on business intent while also striving for consistency. Aruba ClearPass integration with EdgeConnect Enterprise augments application intelligence with user and device identity and role-based policy, enabling fine-grained segmentation. This additional identity-based context enables consistent security policies that can be enforced network-wide, from edge to cloud, while also accelerating troubleshooting and problem resolution.

As a new user or device connects to the network and registers with ClearPass, the Aruba WAN Orchestrator (control plane for Aruba EdgeConnect Enterprise) connects via the ClearPass API. Aruba WAN Orchestrator propagates security policy information related to user, device type, role, and security posture to all EdgeConnect Enterprise appliances in the network.

Because IoT devices are agentless, it is not possible to run a third-party VPN or ZTNA client on them. Thus, a SASE architecture doesn't fully address the security challenges posed by the IoT devices in the enterprise network.

With the Aruba ClearPass zero trust security framework, the network can identify and segment IoT devices and traffic at the network edge and isolate it from other traffic in the network. This new layer of context enables fine-grained segmentation without the complexity of managing multiple VLANs.

For example, a fine-grained segmentation policy can prevent IoT security cameras from accessing credit card transactions or HVAC systems. Zero trust dynamic segmentation helps enterprises isolate any potential security threats by device type, role, and application while helping them meet industry compliance requirements such as PCI, HIPAA, and SOX.

Virtual Routing and Forwarding (VRF) Segmentation

Network managers can configure and manage separate addressing, routing and security policies consistently with the EdgeConnect Enterprise across end-to-end segments and micro-segments for traffic traversing large-scale multinational enterprises and federations of independent companies. Advanced segmentation eliminates the arduous task of manually stitching together VRF, firewall and NAT policies in a consistent manner, dramatically simplifying the management of diverse scenarios and providing unprecedented flexibility when contending with overlapping IP b spaces.

Splunk Integration

Security information and event management (SIEM) tools help to proactively identify potential security threats and vulnerabilities before they have a chance to disrupt business operations and affect revenue. Aruba has introduced a custom application for Splunk, called Aruba EdgeConnect Security App. Easily downloadable from Splunkbase, this app leverages the network data provided by the Aruba EdgeConnect Enterprise SD-WAN platform with Splunk's extensive investigation and visualization capabilities to deliver advanced security reporting and analysis. Compatible with both Splunk Enterprise and Splunk Cloud, the Aruba EdgeConnect Security App provides a dashboard view of all security event notifications stemming from EdgeConnect Enterprise devices. Using Splunk, IT can filter, sort, navigate, and view the collective security event notifications generated across the entire SD-WAN fabric, overall trends, and top talkers to help organizations pinpoint network events that warrant further investigation.



Standard Features

Support for Custom User-Defined Applications

Many organizations continue to support applications customized for or internal to the company that are hosted in the corporate data center. Such custom applications are critical for the enterprise and with the EdgeConnect Enterprise, customers can ensure optimal performance of these applications. From Aruba WAN Orchestrator, IT can easily configure a custom application definition that enables Aruba EdgeConnect Enterprise to identify it on the first packet.

Efficient DNS Query Resolution

A critical step in the DNS proxy is to resolve the DNS query quickly. With Aruba EdgeConnect Enterprise, customers can reach DNS servers in close proximity to branch sites eliminating backhaul of the DNS request to the remote data centers where enterprise DNS servers are hosted. From the branch location itself, DNS requests can be made directly to Global DNS servers, which reduces the impact of latency in establishing a SaaS application session, thereby improving SaaS application performance.

Aruba EdgeConnect Enterprise to identify it on the first packet.

Aruba WAN Orchestrator Enables Faster SD-WAN Deployments

Aruba WAN Orchestrator, included with Aruba EdgeConnect Enterprise for on-premise installations and available as an optional Aruba cloud-hosted service subscription, enables zero-touch provisioning of Aruba EdgeConnect Enterprise appliances in the branch. Aruba Orchestrator automates the assignment of business intent policies to ensure faster and easier connectivity across multiple branches, eliminating the configuration drift that can come from manually updating rules and access control lists (ACLs) on a site-by-site basis. Aruba WAN Orchestrator enables customers to:

- Avoid WAN reconfigurations by delivering applications to users in customized virtual overlays
- Align application delivery to business goals through virtual WAN overlays based on business intent
- Simplify branch deployments with Aruba EdgeConnect Enterprise profiles that describe the virtual and physical configuration of the location

In addition to centralized and automated control of the entire SD-WAN topology, Aruba WAN Orchestrator provides specific detail into WAN performance, including:

- Detailed reporting on application, location, and network statistics
 - Continuous performance monitoring of throughput, loss, latency, jitter, and packet ordering for all network paths
 - Identification of all application traffic by name and location
 - Alarms and alerts to visualize and prioritize software and hardware issues within the WAN allow for faster problem resolution
 - Bandwidth cost savings report for documenting the cost savings of moving to broadband
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Gain Control Over the Cloud

Gain an accurate picture of how Infrastructure-as-a-Service (IaaS) and Software-as-a-Service (SaaS) and are being used within your organization.

- Name-based identification and reporting of all cloud applications
 - Tracking of SaaS provider network traffic
 - Cloud Intelligence provides Internet mapping of optimal egress to SaaS services
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Edge to Cloud Security

Advanced capabilities provide cloud-first enterprises with the control to centralize and automate security policy governance and safely connect users directly to applications. They enable distributed enterprises to centrally segment users, applications and WAN services into secure zones based on identity, access rights, and security posture. Least privileged access principles are applied, ensuring that users and devices only communicate with destinations consistent with their role. Aruba EdgeConnect Enterprise also offers advanced threat defense capabilities including intrusion detection and prevention as well as DDoS protection. Additionally, the solution is tightly integrated with leading SSE (Security Service Edge) vendors, providing advanced security features such as ZTNA (Zero-Trust Network Access), CASB (Cloud Access Security Broker) and SWG (Secure Web Gateway) to build a best-of-breed SASE architecture.



Standard Features

Secure SD-WAN Certification By Icsa Labs

The Aruba EdgeConnect Enterprise SD-WAN platform has earned the ICSA Labs Secure SD-WAN certification, passing rigorous testing based on a comprehensive and robust set of SD-WAN features and platform security requirements.

ICSA Labs Secure SD-WAN certification requirements include:

- **Advanced SD-WAN features** such as tunnel bonding, dynamic path selection and zero-touch provisioning
- **Native support (or via service chaining) for advanced security** functions such as anti-malware, intrusion prevention and DoS protection
- **Encryption** of sensitive data, as well as administrative and operational communications
- **Policy enforcements** for both WAN-specific functions and security policies
- **Security events logging**

The globally recognized certification provides the assurance of using a secure SD-WAN solution certified by a recognized independent, third-party organization. It also enables enterprises to simplify network architecture by securely replacing traditional branch firewalls with Aruba EdgeConnect Enterprise.

Boost Application Performance as Needed

Aruba WAN Boost is an optional WAN Optimization performance that includes:

- **Latency Mitigation:** TCP and other protocol acceleration techniques are applied to all traffic, minimizing the effects of latency on application performance, and significantly improving application response times across the WAN.
- **Data Reduction:** Data compression and deduplication eliminates the repetitive transmission of duplicate data. Aruba Boost inspects WAN traffic at the byte-level and stores content in local data stores. Advanced finger-printing techniques recognize repetitive patterns for local delivery. Data Reduction can be applied to all IP-based protocols, including TCP and UDP.

Why Add Aruba WAN Boost?

Aruba EdgeConnect Enterprise appliances alone provide enhanced application performance for broadband or hybrid WAN deployments, utilizing the included packet-based tunnel bonding, dynamic path control (DPC), and path conditioning for overcoming the adverse effects of dropped and out-of-order packets that are common with Internet connections.

However, sometimes additional performance is needed for specific applications or locations. As distance between locations increases over the WAN, application performance degrades.

This has less to do with the available bandwidth and is more about the time it takes to send and receive data packets over distance, and the number of times data must be re-sent.

Aruba WAN Boost Use Case Examples

- Customers replicating to a disaster recovery (DR) site thousands-of-miles away might want to add Aruba WAN Boost to ensure recovery point objectives (RPOs) are not compromised.
- Enterprises with remote sites located in rural areas, or with sites that are exceptionally farther away from the company's data center, might want to add Aruba Boost to overcome the effects of high latency. With Aruba WAN Boost, customers gain the flexibility to enable enhanced WAN optimization capabilities where and when it is needed in a fully integrated solution. Aruba Boost is licensed per-megabit-per-second, per-month, so customers do not have to pay for WAN optimization across the entire network.

Overcome Effects of Latency

The time it takes for information to go from sender to receiver and back is referred to as network latency. Since the speed of light is constant, WAN latency is directly proportional to the distance travelled between the two network endpoints. Aruba offers a variety of TCP acceleration techniques to mitigate WAN latency, including Window Scaling, Selective Acknowledgement, Round-Trip Measurement, and High-Speed TCP.



Standard Features

Windows and other applications that rely on the Common Internet File System (CIFS) often take longer to perform common file operations over distance, such as retrieving and sharing files. Aruba WAN Boost helps these applications not only by improving the underlying TCP transport, but also by accelerating CIFS through CIFS read-ahead, CIFS write-behind, and CIFS metadata optimizations.

Increase Throughput

As packets flow through Aruba EdgeConnect Enterprise appliances, Aruba WAN Boost inspects WAN traffic at the byte-level and stores content in local data stores. As new packets arrive, Aruba computes fingerprints of the data contained within the packets and checks to see whether these fingerprints match data that is stored locally.

If the remote appliance contains the information, there is no need to resend it over the WAN. Instead, specific start-stop instructions are sent to deliver the data locally.



Service and Support

Aruba EdgeConnect Enterprise Subscription Licensing

Aruba EdgeConnect Enterprise licenses are sold as a subscription, in either single or multi-year increments (1, 2, 3, 4 and 5 years) at multiple bandwidth tiers.

Aruba EdgeConnect Enterprise includes Aruba WAN Orchestrator that can be installed either on premise or in a customer's virtual private cloud. An optional cloud-hosted Aruba WAN Orchestrator license provides a highly reliable alternative deployment model supporting all Aruba WAN Orchestrator features without the complexity of managing on premise virtual compute and storage resources. Large global enterprises with multiple business units (BU) or subsidiaries that have a requirement to support different regional QoS or security policies can optionally deploy Aruba WAN Orchestrator Global Enterprise. This cloud-hosted SaaS application centrally manages and monitors multiple Aruba EdgeConnect Enterprise SD-WAN fabrics.

Aruba WAN Boost is an optional WAN optimization performance pack that may be ordered and deployed flexibly to sites that require application acceleration. Aruba WAN Boost is offered in 100Mbps or 10Gbps blocks.

Aruba EdgeConnect Enterprise Technical Support

Term	Support is included as part of the Aruba EdgeConnect Enterprise subscription license
Web-based support portal	Unlimited access 24 / 7 / 365 includes software downloads, technical documentation, and online knowledge base
Software Updates	Major and minor features releases; maintenance releases
Technical Support	24 / 7 / 365 phone / e-mail / web (Global Technical Assistance Centers — TAC)
Response Time	30 minutes for high priority (P1) — critical
Warranty and Maintenance	Refer to the Aruba EdgeConnect Enterprise warranty and maintenance policies data sheet for further information



Configuration Information

Aruba EdgeConnect Enterprise Branch Gateways

BTO Models

Rule #	Description	SKU
	Ultra-Small	
	Aruba EC-US 3x RJ45 10/100/1000 SD-WAN Gateway	JM799A
	<ul style="list-style-type: none"> • Standard table-top appliance. • Included in packaging box: Table top rubber feet and External Power Supply • Up to 100Mbps WAN Capacity • Supports up to 25Mbps of Boost • Includes 1 Power Adapter & 1 Power Cord • 3 x 10/100/1000 LAN/WAN Ports • 1U - Height 	
	Aruba EC-US 3x RJ45 10/100/1000 SD-WAN Gateway No Loc	JM799A#AC3
	<ul style="list-style-type: none"> • No Power Cord 	
	Extra-Small	
	Aruba EC-XS 4x RJ45 10/100/1000 SD-WAN Gateway	JM962A
	<ul style="list-style-type: none"> • Standard table- top appliance. • Included in packaging box: Table top rubber feet and External Power Supply • 2 - 1000 Mbps WAN Capacity • Supports up to 250Mbps of Boost • Includes 1 Power Adapter & 1 Power Cord • 4 x 10/100/1000 LAN/WAN Ports • 1U - Height 	
	Aruba EC-XS 4x RJ45 10/100/1000 SD-WAN Gateway No Loc	JM962A#AC3
	<ul style="list-style-type: none"> • No Power Cord 	
	Small	
	Aruba EC-S-P 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway	JM538A
	<ul style="list-style-type: none"> • Installed on appliance: Fixed rack mount ear brackets with cage nuts and screws for square holes • 10 - 2000Mbps WAN Capacity • Supports up to 500Mbps of Boost • Includes 1 Power Supply & 1 Power Cord • Option to add redundant Power Supply and Power Cord • 8 x 10/100/1000 LAN/WAN Ports • 4 x 1/10 Gbps LAN/WAN Ports (Min0/Max4 SFP/SFP+ XCVRs) • 1U - Height 	
	Aruba EC-S-P 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway No Loc	JM538A#AC3
	<ul style="list-style-type: none"> • No Power Cord 	
	Aruba EC-S-P-DC 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway	JM769A
	<ul style="list-style-type: none"> • Installed on appliance: Fixed rack mount ear brackets with cage nuts and screws for square holes • 10 - 2000Mbps WAN Capacity • Supports up to 500Mbps of Boost • Includes 1 Power Supply & 1 Power Cord • Option to add redundant Power Supply and Power Cord • 8 x 10/100/1000 LAN/WAN Ports • 4 x 1/10 Gbps LAN/WAN Ports (Min0/Max4 SFP/SFP+ XCVRs) • 1U - Height 	

Configuration Information

Configuration Rules

Rule # Description

- 1 Localization required on orders without AC3 options. Refer to HPN Localization Table.
OCA Only: Required Custom Choice (Min1/Max1)
Localized Power Cord - Default Option
No Power Cord - AC3 Option

- 2 The following SFP+ Transceivers install into this Gateway's SFP+ Ports:

Aruba EC-SFP-LR Single Mode SFP+

JM534A

Aruba EC-SFP-SR Multi Mode SFP+

JM535A

Notes: [OCA Only Model Selection Form - Aruba > SD-WAN > EdgeConnect Enterprise: Hub Gateways](#)

Aruba EdgeConnect Enterprise Branch Gateways Options

Transceivers

Rule # Description

SKU

SFP+ Transceivers

Aruba EC-SFP-LR Single Mode SFP+

JM534A

Aruba EC-SFP-SR Multi Mode SFP+

JM535A

Power Accessories

- 1, 3 Aruba EC-S-P AC Power Supply Unit
Aruba EC-S-P AC Power Supply Unit No Loc
2 Aruba EC-S-P DC Power Supply Unit
- DC PSU = No Localization

JM779A

JM779A#AC3

JM780A

Configuration Rules

Rule # Description

SKU

- 1 This PSU is compatible with the following EC-S Appliances only:
Aruba EC-S-P 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway

JM538A

- 2 This PSU is compatible with the following EC-S Appliances only:
Aruba EC-S-P-DC 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway

JM769A

- 3 Localization required on orders without AC3 options. Refer to HPN Localization Table.
OCA Only: Required Custom Choice (Min1/Max1)
Localized Power Cord - Default Option
No Power Cord - AC3 Option

Accessories

- 2 Aruba EC-XS A1 Accessory Kit
3 Aruba EC-S-P Sliding Rail
3 Aruba EC-S-P Accessory Kit

JM965A

JM781A

JZ893A

Configuration Rules

Rule # Description

SKU

- 2 This Accessory is compatible with the following EC-XS Appliances only:
Aruba EC-XS 4x RJ45 10/100/1000 SD-WAN Gateway

JM962A

- 3 This Accessory is compatible with the following EC-S Appliances only:
Aruba EC-S-P 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway

JM538A

Spares

- 1, 6 Aruba EC-US A1 Power Adapter
- Spare
- 2, 6 Aruba EC-XS A1 Power Adapter
- Spare

JM815A

JM996A

Configuration Rules

Rule # Description

SKU

- 1 This Accessory is compatible with the following EC-US Appliances only:



Configuration Information

2	Aruba EC-US 3x RJ45 10/100/1000 SD-WAN Gateway	JM799A
	This Accessory is compatible with the following EC-XS Appliances only:	
	Aruba EC-XS 4x RJ45 10/100/1000 SD-WAN Gateway	JM962A
3	This Accessory is compatible with the following EC-S Appliances only:	
	Aruba EC-S-P 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway	JM538A

Aruba EdgeConnect Enterprise Hub Gateways

BTO Models

Aruba EdgeConnect Enterprise US SDWAN Appliance

Medium

1, 2, 4	Aruba EC-M-H 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway	JZ872A
	<ul style="list-style-type: none"> Installed on appliance: Fixed rack mount ear brackets with cage nuts and screws for square holes 50 - 5000Mbps WAN Capacity Supports up to 1Gbps of Boost 2 x 480 GB SSD Includes 2 Power Supplies & 2 Power Cords 8 x 10/100/1000 LAN/WAN Ports 4 x 1/10 Gbps LAN/WAN Ports (Min0/Max4 SFP/SFP+ XCVRs) 1U - Height 	
	Aruba EC-M-H 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway No Loc	JZ872A#AC3
	<ul style="list-style-type: none"> No Power Cord 	

Large

1, 2, 4	Aruba EC-L-H 6x SFP+ 1/10G SD-WAN Gateway	JZ878A
	<ul style="list-style-type: none"> Included in packaging box: 4 post tool-less sliding rail kit (cage nuts/screws not included/needed) 1 - 10Gbps WAN Capacity Supports up to 1Gbps of Boost 2 x 480 GB SSD Includes 2 Power Supplies & 2 Power Cords 6 x 1/10 Gbps LAN/WAN Ports (Min0/Max 6 SFP/SFP+ XCVRs) 1U - Height 	
	Aruba EC-L-H 6x SFP+ 1/10G SD-WAN Gateway No Loc	JZ878A#AC3
	<ul style="list-style-type: none"> No Power Cord 	

Extra-Large

1, 2, 3, 4	Aruba EC-XL-H 6x SFP28 1/10/25G SD-WAN Gateway	JZ881A
	<ul style="list-style-type: none"> Included in packaging box: 4 post tool-less sliding rail kit (cage nuts/screws not included/needed) 2 - 10Gbps WAN Capacity Supports up to 5Gbps of Boost 2 x 480 GB SSD / 3.2TB NVMe Includes 2 Power Supplies & 2 Power Cords 6 x 1/10/25 Gbps LAN/WAN Ports (Min0/Max 6 SFP/SFP+/SFP28 XCVRs) 1U - Height 	
	Aruba EC-XL-H 6x SFP28 1/10/25G SD-WAN Gateway No Loc	JZ881A#AC3
	<ul style="list-style-type: none"> No Power Cord 	
	Aruba EdgeConnect Enterprise XL-H-10G 6x SFP+ 1/10G SD-WAN Gateway	S0B67A
	<ul style="list-style-type: none"> Included in packaging box: 4 post tool-less sliding rail kit (cage nuts/screws not included/needed) 2 - 10Gbps WAN Capacity 	

Configuration Information

- Supports up to 5Gbps of Boost
- 2 x 480 GB SSD / 3.2TB NVMe
- Includes 2 Power Supplies & 2 Power Cords
- 6 x 1/10 Gbps LAN/WAN Ports (Min0/Max6 SFP/SFP+ XCVRs)
- 1U - Height

Aruba EdgeConnect Enterprise XL-H-10G 6x SFP+ 1/10G SD-WAN Gateway No Loc

S0B67A#AC3

- No Power Cord

Configuration Rules

Rule # Description

- 1 [Localization required on orders without AC3 options. Refer to HPN Localization Table.](#)
[OCA Only: Required Custom Choice \(Min1/Max1\)](#)
[Localized Power Cord - Default Option](#)
[No Power Cord - AC3 Option](#)

- 2 [The following SFP+ Transceivers install into this Gateway's SFP+ Ports:](#)

Aruba EC-SFP-LR Single Mode SFP+

JM534A

Aruba EC-SFP-SR Multi Mode SFP+

JM535A

- 3 [The following SFP28 Transceivers install into this Gateway's SFP28 Ports:](#)

Aruba EC-SFP28-25G-LR Single Mode SFP28

JM532A

Aruba EC-SFP28-25G-SR Multi Mode SFP28

JM533A

- 4 [The following SFP Transceivers install into this Gateway's SFP Ports:](#)

Aruba EdgeConnect Enterprise 1000BASE-T Copper SFP Transceiver Module

R9Y49A

Notes: [OCA Only Model Selection Form - Aruba > SD-WAN > EdgeConnect Enterprise: Hub Gateways](#)

Aruba EdgeConnect Enterprise Hub Gateways Options

Transceivers

Rule # Description

SKU

SPF Transceivers

Aruba EdgeConnect Enterprise 1000BASE-T Copper SFP Transceiver Module

R9Y49A

SFP+ Transceivers

Aruba EC-SFP-LR Single Mode SFP+

JM534A

Aruba EC-SFP-SR Multi Mode SFP+

JM535A

SFP28 Transceivers

Aruba EC-SFP28-25G-LR Single Mode SFP28

JM532A

Aruba EC-SFP28-25G-SR Multi Mode SFP28

JM533A

Accessories

- 4 Aruba EC-M-H Sliding Rails

JZ954A

- 4 Aruba EC-M-H Accessory Kit

JZ894A

- 5 Aruba EC-L/EC-XL-H Sliding and 4-Post Static Rails

JZ886A

- 5 Aruba EC-L/EC-XL-H 2-Post Center Mount Conversion Bracket Kit

JZ888A

Configuration Rules

Rule # Description

SKU

- 4 [This Accessory is compatible with the following EC-M-H Appliances only:](#)

Aruba EC-M-H 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway

JZ872A

- 5 [This Accessory is compatible with the following EC-L-H/EC-XL-H Appliances only:](#)

Aruba EC-L-H 6x SFP+ 1/10G SD-WAN Gateway

JZ878A

Aruba EC-XL-H 6x SFP28 1/10/25G SD-WAN Gateway

JZ881A

Aruba EdgeConnect Enterprise XL-H-10G 6x SFP+ 1/10G SD-WAN Gateway

S0B67A

Spares

Rule # Description

SKU

- 4 Aruba EC-M-H 100-240V 50/60Hz 300W AC Power Supply Unit

JZ955A

- Spare

- 5 Aruba EC-L/EC-XL-H 100-240V 50/60Hz 800W AC Power Supply Unit

JZ887A



Configuration Information

	<ul style="list-style-type: none"> Spare 	
5	Aruba EC -L/EC-XL-H 480GB Solid State Drive	JZ889A
	<ul style="list-style-type: none"> Spare 	
5	Aruba EC-XL-H 1.6TB PCI Express Flash NVM	JZ890A
	<ul style="list-style-type: none"> Spare 	
Configuration Rules		
Rule #	Description	SKU
4	This Accessory is compatible with the following EC-M-H Appliances only: Aruba EC-M-H 8x RJ45 10/100/1000 4x SFP+ 1/10G SD-WAN Gateway	JZ872A
5	This Accessory is compatible with the following EC-L-H/EC-XL-H Appliances only: Aruba EC-L-H 6x SFP+ 1/10G SD-WAN Gateway Aruba EC-XL-H 6x SFP28 1/10/25G SD-WAN Gateway Aruba EdgeConnect Enterprise XL-H-10G 6x SFP+ 1/10G SD-WAN Gateway	JZ878A JZ881A SOB67A

Aruba EdgeConnect Enterprise Software (Traditional)

Advanced Security		SKU
Rule #	Description	
2, 3	Aruba EdgeConnect AS-Standard 1Y E-STU	JZ904AAS
2, 3	Aruba EdgeConnect AS-Standard 2Y E-STU	JZ905AAS
2, 3	Aruba EdgeConnect AS-Standard 3Y E-STU	JZ906AAS
2, 3	Aruba EdgeConnect AS-Standard 4Y E-STU	JZ907AAS
2, 3	Aruba EdgeConnect AS-Standard 5Y E-STU	JZ908AAS
2, 3, 4	Aruba EdgeConnect AS-UL 1Y E-STU	JZ909AAS
2, 3, 4	Aruba EdgeConnect AS-UL 2Y E-STU	JZ910AAS
2, 3, 4	Aruba EdgeConnect AS-UL 3Y E-STU	JZ911AAS
2, 3, 4	Aruba EdgeConnect AS-UL 4Y E-STU	JZ912AAS
2, 3, 4	Aruba EdgeConnect AS-UL 5Y E-STU	JZ913AAS
2, 3	Aruba EdgeConnect AS-Standard-HA 1Y E-STU	JZ914AAS
2, 3	Aruba EdgeConnect AS-Standard-HA 2Y E-STU	JZ915AAS
2, 3	Aruba EdgeConnect AS-Standard-HA 3Y E-STU	JZ916AAS
2, 3	Aruba EdgeConnect AS-Standard-HA 4Y E-STU	JZ917AAS
2, 3	Aruba EdgeConnect AS-Standard-HA 5Y E-STU	JZ918AAS
2, 3, 4	Aruba EdgeConnect AS-UL-HA 1Y E-STU	JZ919AAS
2, 3, 4	Aruba EdgeConnect AS-UL-HA 2Y E-STU	JZ920AAS
2, 3, 4	Aruba EdgeConnect AS-UL-HA 3Y E-STU	JZ921AAS
2, 3, 4	Aruba EdgeConnect AS-UL-HA 4Y E-STU	JZ922AAS
2, 3, 4	Aruba EdgeConnect AS-UL-HA 5Y E-STU	JZ923AAS
Bandwidth License		
2	Aruba EdgeConnect BW-100 1y E-STU	JM068AAS
2	Aruba EdgeConnect BW-100 2y E-STU	JM069AAS
2	Aruba EdgeConnect BW-100 3y E-STU	JM070AAS
2	Aruba EdgeConnect BW-100 4y E-STU	JM071AAS
2	Aruba EdgeConnect BW-100 5y E-STU	JM072AAS
2	Aruba EdgeConnect BW-100 HA 1y E-STU	JM075AAS
2	Aruba EdgeConnect BW-100 HA 2y E-STU	JM076AAS
2	Aruba EdgeConnect BW-100 HA 3y E-STU	JM077AAS
2	Aruba EdgeConnect BW-100 HA 4y E-STU	JM078AAS
2	Aruba EdgeConnect BW-100 HA 5y E-STU	JM079AAS
2	Aruba EdgeConnect BW-1G 1y E-STU	JM084AAS
2	Aruba EdgeConnect BW-1G 2y E-STU	JM085AAS
2	Aruba EdgeConnect BW-1G 3y E-STU	JM086AAS
2	Aruba EdgeConnect BW-1G 4y E-STU	JM087AAS
2	Aruba EdgeConnect BW-1G 5y E-STU	JM088AAS

Configuration Information

Rule #	Description	SKU
2	Aruba EdgeConnect BW-1G-HA 1y E-STU	JM091AAS
2	Aruba EdgeConnect BW-1G-HA 2y E-STU	JM092AAS
2	Aruba EdgeConnect BW-1G-HA 3y E-STU	JM093AAS
2	Aruba EdgeConnect BW-1G-HA 4y E-STU	JM094AAS
2	Aruba EdgeConnect BW-1G-HA 5y E-STU	JM095AAS
2	Aruba EdgeConnect BW-200 1y E-STU	JM100AAS
2	Aruba EdgeConnect BW-200 2y E-STU	JM101AAS
2	Aruba EdgeConnect BW-200 3y E-STU	JM102AAS
2	Aruba EdgeConnect BW-200 4y E-STU	JM103AAS
2	Aruba EdgeConnect BW-200 5y E-STU	JM104AAS
2	Aruba EdgeConnect BW-200-HA 1y E-STU	JM107AAS
2	Aruba EdgeConnect BW-200-HA 2y E-STU	JM108AAS
2	Aruba EdgeConnect BW-200-HA 3y E-STU	JM109AAS
2	Aruba EdgeConnect BW-200-HA 4y E-STU	JM110AAS
2	Aruba EdgeConnect BW-200-HA 5y E-STU	JM111AAS
2	Aruba EdgeConnect BW-20 1y E-STU	JM116AAS
2	Aruba EdgeConnect BW-20 2y E-STU	JM117AAS
2	Aruba EdgeConnect BW-20 3y E-STU	JM118AAS
2	Aruba EdgeConnect BW-20 4y E-STU	JM119AAS
2	Aruba EdgeConnect BW-20 5y E-STU	JM120AAS
2	Aruba EdgeConnect BW-20-HA 1y E-STU	JM123AAS
2	Aruba EdgeConnect BW-20-HA 2y E-STU	JM124AAS
2	Aruba EdgeConnect BW-20-HA 3y E-STU	JM125AAS
2	Aruba EdgeConnect BW-20-HA 4y E-STU	JM126AAS
2	Aruba EdgeConnect BW-20-HA 5y E-STU	JM127AAS
2	Aruba EdgeConnect BW-2G 1y E-STU	JM132AAS
2	Aruba EdgeConnect BW-2G 2y E-STU	JM133AAS
2	Aruba EdgeConnect BW-2G 3y E-STU	JM134AAS
2	Aruba EdgeConnect BW-2G 4y E-STU	JM135AAS
2	Aruba EdgeConnect BW-2G 5y E-STU	JM136AAS
2	Aruba EdgeConnect BW-2G-HA 1y E-STU	JM139AAS
2	Aruba EdgeConnect BW-2G-HA 2y E-STU	JM140AAS
2	Aruba EdgeConnect BW-2G-HA 3y E-STU	JM141AAS
2	Aruba EdgeConnect BW-2G-HA 4y E-STU	JM142AAS
2	Aruba EdgeConnect BW-2G-HA 5y E-STU	JM143AAS
2	Aruba EdgeConnect BW-500 1y E-STU	JM148AAS
2	Aruba EdgeConnect BW-500 2y E-STU	JM149AAS
2	Aruba EdgeConnect BW-500 3y E-STU	JM150AAS
2	Aruba EdgeConnect BW-500 4y E-STU	JM151AAS
2	Aruba EdgeConnect BW-500 5y E-STU	JM152AAS
2	Aruba EdgeConnect BW-500-HA 1y E-STU	JM155AAS
2	Aruba EdgeConnect BW-500-HA 2y E-STU	JM156AAS
2	Aruba EdgeConnect BW-500-HA 3y E-STU	JM157AAS
2	Aruba EdgeConnect BW-500-HA 4y E-STU	JM158AAS
2	Aruba EdgeConnect BW-500-HA 5y E-STU	JM159AAS
2	Aruba EdgeConnect BW-50 1y E-STU	JM164AAS
2	Aruba EdgeConnect BW-50 2y E-STU	JM165AAS
2	Aruba EdgeConnect BW-50 3y E-STU	JM166AAS
2	Aruba EdgeConnect BW-50 4y E-STU	JM167AAS
2	Aruba EdgeConnect BW-50 5y E-STU	JM168AAS
2	Aruba EdgeConnect BW-50-HA 1y E-STU	JM171AAS
2	Aruba EdgeConnect BW-50-HA 2y E-STU	JM172AAS

Configuration Information

2	Aruba EdgeConnect BW-50-HA 3y E-STU	JM173AAS
2	Aruba EdgeConnect BW-50-HA 4y E-STU	JM174AAS
2	Aruba EdgeConnect BW-50-HA 5y E-STU	JM175AAS
2	Aruba EdgeConnect BW-UL 1y E-STU	JM180AAS
2	Aruba EdgeConnect BW-UL 2y E-STU	JM181AAS
2	Aruba EdgeConnect BW-UL 3y E-STU	JM182AAS
2	Aruba EdgeConnect BW-UL 4y E-STU	JM183AAS
2	Aruba EdgeConnect BW-UL 5y E-STU	JM184AAS
2	Aruba EdgeConnect BW-UL-HA 1y E-STU	JM187AAS
2	Aruba EdgeConnect BW-UL-HA 2y E-STU	JM188AAS
2	Aruba EdgeConnect BW-UL-HA 3y E-STU	JM189AAS
2	Aruba EdgeConnect BW-UL-HA 4y E-STU	JM190AAS
2	Aruba EdgeConnect BW-UL-HA 5y E-STU	JM191AAS

Configuration Rules

Rule #	Description	SKU
1	These SKUs must be also presented in the OCA Catalog in the following Directory: Aruba > SD-WAN > EdgeConnect Enterprise > Orchestration Software	
2	These SKUs must be also presented in the OCA Catalog in the following Directory: Aruba > SD-WAN > EdgeConnect Enterprise > Software Licenses	
3	This license is not supported on the following EC-US Gateways: JM799A	
4	This license is not supported on the following EC-XS Gateways: JM962A	

EdgeConnect Enterprise Software (Tiered Subscription)

Rule#	Description	SKU
SD-WAN Foundation		
1, 4	Aruba EdgeConnect Enterprise Foundation-AAS Core 1-year Subscription SaaS	SOY45AAS
1, 4	Aruba EdgeConnect Enterprise Foundation-AAS 100Mbps 90-day Evaluation SaaS	SOY82AAS
1, 4	Aruba EdgeConnect Enterprise Foundation-AAS 100Mbps 1-year Subscription SaaS	S1C49AAS
1, 4	Aruba EdgeConnect Enterprise Foundation-AAS 1Gbps 1-year Subscription SaaS	S1A22AAS
1, 4	Aruba EdgeConnect Enterprise Foundation-AAS Unlimited 90-day Evaluation SaaS	S1C59AAS
	HPE Aruba Networking EdgeConnect SD-WAN Hub Gateway Foundation 1-year Subscription SaaS	S2M85AAS
	HPE Aruba Networking EdgeConnect SD-WAN Hub Gateway Advanced 1-year Subscription SaaS	S2M86AAS
	HPE Aruba Networking EdgeConnect SD-WAN Hub Gateway Configurable Subscription SaaS	S2M87AAS
SD-WAN Advanced		
2, 4, 5	HPE Aruba EdgeConnect Advanced-AAS Core 1-year Subscription SaaS	SOY46AAS
2, 4, 5	Aruba EdgeConnect Enterprise Advanced-AAS 20Mbps 90-day Evaluation SaaS	SOY66AAS
2, 4, 5	Aruba EdgeConnect Enterprise Advanced-AAS 50Mbps 1-year Subscription SaaS	S1B20AAS
2, 4, 5	Aruba EdgeConnect Enterprise Advanced-AAS 100Mbps 1-year Subscription SaaS	S1B34AAS
2, 4, 5	Aruba EdgeConnect Enterprise Advanced-AAS 500Mbps 1-year Subscription SaaS	S1B62AAS
2, 4, 5	Aruba EdgeConnect Enterprise Advanced-AAS Unlimited 90-day Evaluation SaaS	SOY80AAS
2, 4, 5	Aruba EdgeConnect Enterprise Advanced-AAS Unlimited 1-year Subscription SaaS	S1C35AAS
SD-WAN Foundation/Advanced Add-On's		
4, 6	Aruba EdgeConnect Enterprise Boost-AAS 100Mbps 1-year Subscription SaaS	SOZ71AAS
4, 6	Aruba EdgeConnect Enterprise Boost-AAS 10Gbps 90-day Evaluation SaaS	S1C79AAS
4, 6	Aruba EdgeConnect Enterprise Boost-AAS 10Gbps 1-year Subscription SaaS	SOZ85AAS
4, 5, 6	Aruba EdgeConnect Enterprise Dynamic Threat Defense-AAS 90-day Evaluation SaaS	S1C85AAS
4, 5, 6	Aruba EdgeConnect Enterprise Dynamic Threat Defense-AAS 1-year Subscription SaaS	SOZ37AAS
SD-WAN Advanced-OnPrem		
3, 4	Aruba EdgeConnect Enterprise On-Premises Core 1-year Subscription E-STU	SOY47AAS
3, 4	Aruba EdgeConnect Enterprise On-Premises 500Mbps 1-year Subscription E-STU	SOX93AAS
3, 4	Aruba EdgeConnect Enterprise On-Premises 20Mbps 90-day Evaluation E-STU	S1C61AAS

Configuration Information

3, 4	Aruba EdgeConnect Enterprise On-Premises 50Mbps 1-year Subscription E-STU	S1A94AAS
3, 4	Aruba EdgeConnect Enterprise On-Premises 100Mbps 1-year Subscription E-STU	S1B99AAS
3, 4	Aruba EdgeConnect Enterprise On-Premises Unlimited 1-year Subscription E-STU	S0Z57AAS

SD-WAN Advanced-OnPrem Add-On's

3, 4	Aruba EdgeConnect Enterprise Boost On-Premises 10Gbps 90-day Evaluation E-STU	S1C83AAS
3, 4	Aruba EdgeConnect Enterprise Boost On-Premises 100Mbps 1-year Subscription E-STU	S0Z99AAS
3, 4, 5	Aruba EdgeConnect Enterprise Dynamic Threat Defense On-Premises 90-day Evaluation E-STU	S1C87AAS
3, 4, 5	HPE Aruba EdgeConnect Dynamic Threat Defense On-Premises 1-year Subscription E-STU	S0Y31AAS

Configuration Rules

Rule #	Description	SKU
1	IRIS Error: User cannot mix skus across subscription tiers within a single EdgeConnect Solution. These skus are identified as Tier 1: SD-WAN Foundation	
2	IRIS Error: User cannot mix skus across subscription tiers within a single EdgeConnect Solution. These skus are identified as Tier 2: SD-WAN Advanced	
3	IRIS Error: User cannot mix skus across subscription tiers within a single EdgeConnect Solution. These skus are identified as Tier 3: SD-WAN Advanced-OnPrem	
4	For IRIS reference only. No action required for OCX and Clic	
5	This license is not supported on the following EC-US Gateways: JM799A	
6	This Add-on license can be selected in conjunction with either of the following Subscription Tiers: <ul style="list-style-type: none"> Tier 1: SD-WAN Foundation Tier 2: SD-WAN Advanced 	



Technical Specifications

Aruba EdgeConnect Enterprise Hardware Portfolio

	EdgeConnect Enterprise US	EdgeConnect Enterprise 10104	EdgeConnect Enterprise XS	EdgeConnect Enterprise S-P
Model	Ultra-Small (EC-US)	EdgeConnect Enterprise 10104	Extra-Small (EC-XS)	Small (EC-S-P*)
Typical Deployment	Small Branch/ Home Office	Small Branch/ Home Office	Small Branch	Large Branch
Typical WAN Bandwidth**	1–200 Mbps	2–500 Mbps	2–1000 Mbps	10–3000 Mbps
Simultaneous Connections	256,000	256,000	256,000	256,000
Recommended WAN Boost up to	25 Mbps	200 Mbps	250 Mbps	500 Mbps
IDS/IPS	Not supported	Yes	Yes	Yes
Redundancy/ FRUs*	No	No	No	SSD and Power (AC or DC)
Data Path Interfaces	3 x RJ45 10/100/1000 Mbps	4 x RJ45 10/100/1000	4 x RJ45 10/100/1000 Mbps	8 x RJ45 4 x 1/10G Optical

Notes:

- EC-XL-H and EC-XL-H-10G comes pre-equipped with NVMe for maximum WAN optimization (Boost)
- EC-S-P, EC-M-H, EC-L-H, and EC-XL-H all support pluggable optics
- See software compatibility table for minimum software releases required to support the new EC –H models
- WAN Bandwidth assumes bidirectional traffic (symmetric up-link and down-link). For total WAN throughput (Rx+Tx), multiply these numbers by 2.
- For best performance, EdgeConnect Operating System Release 9.1 or higher is recommended
- FRU Power Supplies are an additional SKU

Aruba EdgeConnect Enterprise Hardware Portfolio

	EdgeConnect Enterprise M-H	EdgeConnect Enterprise L-H	EdgeConnect Enterprise XL-H
Model	Medium (EC-M-H*)	Large (EC-L-H*)	Extra-Large (EC-XL-H*)
Typical Deployment	Head Office/DC Large Hub	Data Center Large Hub	Data Center Large Hub
Typical WAN Bandwidth**	50–5000 Mbps	2–10 Gbps	2–10 Gbps
Simultaneous Connections	2,000,000	2,000,000	2,000,000
Recommended WAN Boost up to	1 Gbps	1 Gbps	5 Gbps
	Yes	Yes	Yes
Redundancy/ FRUs*	SSD and Power	SSD and Power	SSD, NVMe, Power
Data Path Interfaces	8 x RJ45 4 x 1/10G Optical	6 x 1/10G Optical	6 x 1/10/25G Optical

Notes:

- EC-XL-H and EC-XL-H-10G comes pre-equipped with NVMe for maximum WAN optimization (Boost)
- EC-S-P, EC-M-H, EC-L-H, and EC-XL-H all support pluggable optics
- See software compatibility table for minimum software releases required to support the new EC –H models
- WAN Bandwidth assumes bidirectional traffic (symmetric up-link and down-link). For total WAN throughput (Rx+Tx), multiply these numbers by 2.
- For best performance, EdgeConnect Operating System Release 9.1 or higher is recommended
- FRU Power Supplies are an additional SKU



Technical Specifications

Aruba EdgeConnect Enterprise SD-WAN Platform Specification Sheets

- [Ultra-Small](#)
- [10104](#)
- [Extra-Small](#)
- [Small](#)
- [Medium](#)
- [Large](#)
- [Extra-Large](#)

Aruba EdgeConnect Enterprise Technical Support

Term	Support is included as part of the Aruba EdgeConnect Enterprise subscription license
Web-based support portal	Unlimited access 24 / 7 / 365 includes software downloads, technical documentation, and online knowledge base
Software Updates	Major and minor features releases; maintenance releases
Technical Support	24 / 7 / 365 phone / e-mail / web (Global Technical Assistance Centers — TAC)
Response Time	30 minutes for high priority (P1) — critical
Warranty and Maintenance	Refer to the Aruba EdgeConnect Enterprise warranty and maintenance policies data sheet for further information

Flexible Deployment Models

- Aruba EdgeConnect Enterprise Virtual (EC-V) — Download and install Aruba EdgeConnect Enterprise from anywhere in the world. The software runs on all common hypervisors, including VMware ESXi, Microsoft Hyper-V, Citrix XenServer, and KVM. Aruba customers who have an IaaS presence in AWS, Microsoft Azure, Oracle Cloud Infrastructure or Google Cloud Platform can deploy Aruba EdgeConnect Enterprise within their hosted cloud environment.
- Aruba EdgeConnect Enterprise Physical (EC) — For enterprises that are not virtualized in the branch, choose one of the Aruba EdgeConnect Enterprise hardware appliance models for plug-and-play deployment.

Aruba EdgeConnect Enterprise Subscription Licensing

Aruba EdgeConnect Enterprise SD-WAN platform is available as a software subscription. Two subscription tiers are available, Foundation and Advanced, in either single or multiyear increments (1,2,3,4,5,6, and 7 years) and at multiple bandwidth tiers. Subscription tier mixing is not supported, i.e., every EdgeConnect Enterprise appliance in an SD-WAN fabric must run either Foundation or Advanced licenses.

- **Foundation License Tier:** The Foundation license tier includes essential SD-WAN features and all of the advanced NGFW features. The Foundation license is available in 100 Mbps, 1 Gbps, and 10 Gbps bandwidth tiers. Moreover, the Foundation license supports Hub-and-Spoke topology (4 Hubs/ region), a limited number of VRFs, and includes a cloud-hosted Aruba WAN Orchestrator subscription (Foundation OaaS). The Foundation license supports three BIOs, all essential QoS parameters and fundamental data retention capabilities, making it ideal for customers who require a simple, easy-to-manage SD-WAN with comprehensive NGFW features.
- **Advanced License Tier:** Advanced license tier includes all Aruba EdgeConnect Enterprise advanced SD-WAN features and all of the advanced NGFW features. The Advanced license is available in 20 Mbps, 50 Mbps, 100 Mbps, 200 Mbps, 500 Mbps, 1 Gbps, 2 Gbps, and Unlimited bandwidth tiers. Moreover, the Advanced license supports unlimited topology, 64 VRFs and includes a cloud-hosted Aruba WAN Orchestrator subscription (Advanced OaaS). The Advanced OaaS appeals to enterprises that prefer a zero-CAPEX SDWAN management solution without the capital investment and the associated complexity of managing on-premises infrastructure. The Advanced license supports up to seven BIOs, advanced QoS parameters, and enhanced data retention capabilities making it ideal for customers who do not want to compromise on the SD-WAN features and want comprehensive NGFW features. Enterprises that require on-premises deployment of Aruba WAN Orchestrator can purchase the Advanced on-prem license. The on-prem edition of the Advanced license offers the same rich capabilities as the Advanced license but enables enterprises to manage their own instance of Aruba WAN Orchestrator. It is well-suited for customers that require a private installation of their SD-WAN management software.



Technical Specifications

Optional EdgeConnect Enterprise Licenses

- **Dynamic Threat Defense:** Enterprises that require comprehensive IDS/IPS capabilities integrated with the SD-WAN can optionally deploy the Dynamic Threat Defense license.
- **WAN Boost:** Aruba WAN Boost is an optional WAN optimization performance pack that may be ordered and deployed flexibly to sites that require application acceleration. Aruba WAN Boost is offered in 100Mbps or 10Gbps blocks. Moreover, large global enterprises with multiple business units (BU) or subsidiaries that have a requirement to support different regional QoS or security policies can optionally deploy Aruba WAN Orchestrator Global Enterprise (not applicable for Advanced on-prem license).

Aruba EdgeConnect Enterprise US (Ultra-Small)

Capacity

WAN bandwidth capacity (all features + encryption)	Up to 200 Mbps
Simultaneous connections	256,000

Resiliency

Drives	Single
Power supplies	Single
Network	WAN link redundancy supported via business intent overlays with multiple link bonding options. LAN-side protection includes VRRP and BGP. Multiple IPSLA options included
RAM	Non-ECC memory
MTBF	148,820 hours (17.0 years)

Security

Disk encryption	128-bit AES
Network encryption	IPsec (256-bit AES)

Connectivity

LAN/WAN ethernet	3 x 10/100/1000 LAN/WAN (1 LAN/2 WAN) as per IEEE 802.3i, 802.3u, 802.3ab, 802.1Q
Management	Console port

WAN Optimization

Recommended Boost up to	25 Mbps
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Deployment

In-line router mode	In-line as next-hop gateway at site perimeter, connected to a broadband internet modem for zero touch provisioning, with WAN hardening or zone-based stateful firewall
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Power

Requirement	100-240VAC / 50-60Hz / 8.7 W / 29.7 BTU
Power supplies	Single adapter

Dimensions

Height	0.8 in (19.4 mm)
Width	4.9 in (124.3 mm)
Depth	4.7 in (119.7 mm)
Weight	1.1 lb (0.5 kg)

Regulatory

EMC	FCC Part 15 Class B, EN 55022 Class B, VCCI Class B, EN 61000-4-2 to 4-6/4-8/4-11, EN 55024
Safety	UL/cUL/60950, EN 60950

Environmental

Temperature (operating)	0° C to 40° C (32° to 104° F)
Temperature (storage)	-40° C to 65° C (-40° to 149° F)
Humidity (operating)	8 to 90 percent relative humidity, non-condensing



Technical Specifications

Humidity (storage)	8 to 95 percent relative humidity, non-condensing
Altitude (operating)	Up to 10,000 ft (3,048 m)
Altitude (storage)	Up to 40,000 ft (12,192 m)
Management	
CLI	Full-featured CLI available over console port or SSH, REST API and Web UI
GUI	Aruba WAN Orchestrator provides centralized configuration, monitoring, and management of multiple EdgeConnect Enterprise appliances
SNMP	SNMPv2c, SNMPv3
Secure access	SSH and HTTPS
Logging	Syslog with configurable levels. Email alerts
Authentication	Local database, RADIUS, TACACS+
Statistics	Graphing and monitoring, real-time and historical. NetFlow and IPFIX supported

Aruba EdgeConnect Enterprise XS (Extra-Small)

Capacity	
WAN bandwidth capacity (all features + encryption)	2 to 1000 Mbps
Simultaneous connections	256,000
Resiliency	
Drives	Single
Power supplies	Single
Network	WAN link redundancy supported via business intent overlays with multiple link bonding options. LAN-side protection includes VRRP and BGP. Multiple IPSLA options included.
RAM	ECC memory
MTBF	162,171 hours (18.5 years)
Security	
Disk encryption	128-bit AES
Network encryption	IPsec (256-bit AES)
Connectivity	
LAN/WAN ethernet	4 x 10/100/1000 LAN/WAN (2 LAN/ 2 WAN) as per IEEE 802.3i, 802.3u, 802.3ab, 802.1Q
Management	2 x 10/100/1000; console port
WAN Optimization	
Recommended Boost up to	250 Mbps
Deployment	
In-line router mode	In-line as next-hop gateway between L2 switch and WAN router or broadband internet modem for zero touch provisioning, with WAN hardening or zone-based stateful firewall
Out-of-path (router) mode	Attached to WAN router out-of-path with PBR re-direction, WCCP, and VRRP
Power	
Requirement	100-240VAC / 50-60Hz / 34W / 29.7 BTU
Power supplies	Single adapter
Dimensions	
Height	1.7 in (44 mm)
Width	9.4 in (240 mm)
Depth	7.9 in (200 mm)
Weight	3.5 lbs (1.6 kg)
Regulatory	
EMC	FCC Part 15 Class B, EN 55022 Class B, VCCI Class B EN 61000-3-2/3-3, EN 55024



Technical Specifications

Safety	UL/cUL/60950, EN 60950
Environmental	
Temperature (operating)	0° C to 40° C (32° to 104° F)
Temperature (storage)	-40° C to 65° C (-40° to 149° F)
Humidity (operating)	8 to 90 percent relative humidity, non-condensing
Humidity (storage)	8 to 95 percent relative humidity, non-condensing
Altitude (operating)	Up to 10,000 ft (3,048 m)
Altitude (storage)	Up to 40,000 ft (12,192 m)
Management	
CLI	Full-featured CLI available over console port or SSH, REST API and Web UI
GUI	Aruba WAN Orchestrator provides centralized configuration, monitoring, and management of multiple Aruba EdgeConnect Enterprise appliances
SNMP	SNMPv2c, SNMPv3
Secure access	SSH and HTTPS
Logging	Syslog with configurable levels. Email alerts
Authentication	Local database, RADIUS, TACACS+
Statistics	Graphing and monitoring, real-time and historical. NetFlow and IPFIX supported

Aruba EdgeConnect Enterprise S-P (Small)

Capacity

WAN bandwidth capacity (all features + encryption)	10 to 3000 Mbps
Simultaneous connections	256,000

Resiliency

Drives	SSD - dual
Power supplies	Single and dual redundant options
Network	WAN link redundancy supported via business intent overlays with multiple link bonding options. LAN-side protection includes VRRP and BGP. Multiple IPSLA options included.
RAM	ECC memory
MTBF	177,726 hours (20 years)

Security

Disk encryption	128-bit AES
Network encryption	IPsec (256-bit AES)

Connectivity

LAN/WAN ethernet	8 x 10/100/1000 (4 LAN/4 WAN) as per IEEE 802.3i, 802.3u, 802.3ab, 802.1Q 4 x 1/10Gbps ethernet SFP+ fiber data ports (2 LAN/2 WAN) as per IEEE 802.3z, 802.3ae, 802.1Q
Management	2 x 10/100/1000; console port

WAN Optimization

Recommended Boost up to	500 Mbps
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Deployment

In-line router mode	In-line as next-hop gateway between L2 switch and WAN router or broadband internet modem for zero touch provisioning, with WAN hardening or zone-based stateful firewall
Out-of-path (router) mode	Attached to WAN router out-of-path with PBR re-direction, WCCP, and VRRP

Power

AC Requirement	100-240VAC / 47-63Hz / 300W
AC Power supplies	Single or dual



Technical Specifications

DC requirement	-48V / -40V ~ -60V / 103W
DC power supplies	Single or dual
Dimensions	
Height	1.7 in (44 mm)
Width	17.2 in (438 mm)
Depth	16.5 in (420 mm)
Weight	18.14 lbs (8.23 kg)
Regulatory	
EMC	FCC Part 15 Class A, EN 55024/55032/55035 Class A, VCCI Class A, EN 61000-3-2/3-3
Safety	UL/CB 60950-1 / 62368-1, EN 60950 / 62368
Environmental	
Temperature (operating)	0° C to 40° C (32° to 104° F)
Temperature (storage)	-40° C to 65° C (-40° to 149° F)
Humidity (operating)	8 to 90 percent relative humidity, non-condensing
Humidity (storage)	8 to 95 percent relative humidity, non-condensing
Altitude (operating)	Up to 10,000 ft (3,048 m)
Management	
CLI	Full-featured CLI available over DB-9 console port or SSH, REST API and Web UI
GUI	Aruba WAN Orchestrator provides centralized configuration, monitoring and management of multiple Aruba EdgeConnect Enterprise appliances
SNMP	SNMPv2c, SNMPv3
Secure access	SSH and HTTPS
Logging	Syslog with configurable levels. Email alerts
Authentication	Local database, RADIUS, TACACS+
Statistics	Graphing and monitoring, real-time and historical. NetFlow and IPFIX supported

Aruba EdgeConnect Enterprise M-H (Medium)

Capacity	
WAN bandwidth capacity (all features + encryption)	50 Mbps to 5 Gbps (bidirectional)
Simultaneous connections	2,000,000
Resiliency	
Power supplies	Dual redundant
Network	WAN link redundancy supported via business intent overlays with multiple link bonding options. LAN-side protection includes VRRP and BGP. Multiple IPSLA options included.
Storage	960GB SSD
Routing	BGP and OSPF supported
MTBF	15.0 years
Security	
Disk encryption	128-bit AES
Network encryption (data plane)	IPsec (256-bit AES)
Network encryption (management plane)	TLS 1.2
Connectivity	
LAN/WAN ethernet	8 x 10/100/1000 (4 LAN/4 WAN) as per IEEE 802.3i, 802.3u, 802.3ab, 802.1Q and 4 x 1/10Gbps SFP+ optical interfaces that can support pluggable optics
Management	2 x 10/100/1000; Console port



Technical Specifications

WAN Optimization	
Recommended Boost up to	1 Gbps
Power	
AC Requirement	153W / 522 BTU
AC Power supplies	1+1 Redundant
Dimensions	
Height	1.69 in (42.9 mm)
Width	17.2 in (436.9 mm)
Depth	16.5 in (419.1 mm)
Weight	18.1 lbs (8.2 kg)
Regulatory	
EMC	FCC Part 15 Class A, EN 55024/55032/55035 Class A, VCCI Class A, EN 61000-3-2/3-3
Safety	UL/CB 60950-1 / 62368-1, EN 60950 / 62368
Environmental	
Temperature (operating)	0° C to 40° C (32° to 104° F)
Temperature (storage)	-40° C to 65° C (-40° to 149° F)
Humidity (operating)	10 to 80 percent relative humidity, non-condensing
Humidity (storage)	8 to 95 percent relative humidity, non-condensing
Altitude (operating)	Up to 10,000 ft (3,048 m)
Altitude (storage)	Up to 40,000 ft (12,192 m)
Management	
CLI	Full-featured CLI available over console port or SSH
GUI	Aruba EdgeConnect Enterprise Operating System (ECOS) includes a Web User Interface which manages an individual appliance. Aruba WAN Orchestrator provides centralized configuration, monitoring and management of multiple Aruba EdgeConnect Enterprise appliances.
API	REST API at appliance level. Aruba WAN Orchestrator provides REST API for systems integration.
SNMP	SNMPv2c, SNMPv3
Secure access	SSH and HTTPS (Web UI)
Logging	Syslog with configurable levels
Authentication	Local database, RADIUS, TACACS+
Statistics	Graphing and monitoring, real-time and historical. NetFlow and IPFIX supported

Aruba EdgeConnect Enterprise L-H (Large)

Capacity	
WAN bandwidth capacity (all features + encryption)	2 to 10 Gbps (bidirectional)
Simultaneous connections	2,000,000
Resiliency	
Power supplies	Dual redundant
Network	WAN link redundancy supported via business intent overlays with multiple link bonding options. LAN-side protection includes VRRP and BGP. Multiple IPSLA options included.
Storage	960GB SSD
Routing	BGP and OSPF supported
MTBF	Greater than 10 years
Security	
Disk encryption	128-bit AES
Network encryption (data plane)	IPsec (256-bit AES)



Technical Specifications

Network encryption (management plane)	TLS 1.2
Connectivity	
LAN/WAN ethernet	6 x 1/10Gbps SFP+ transceiver cages as per IEEE 802.3z, 802.3ae, 802.1Q
Management	2 x 10/100/1000; Console port
WAN Optimization	
Recommended Boost up to	1 Gbps
Power	
AC Requirement	404 W/ 1379 BTU
Power Adapter	1+1 Redundant
Dimensions	
Height	1.69 in (42.9 mm) / 1U
Width	17.11 in (434.6 mm)
Depth	27.83 in (706.9 mm)
Weight	32 lbs (14.6 kg)
Regulatory	
EMC	FCC Part 15 Class A, CISPR 22/23, EN 55032 Class A, EN 55024, VCCI Class A, IEC 610003-2 / 3-3, EN 61000-3-2 / 3-3
Safety	UL 60950-1, IEC 60950-1, IEC 62368
Environmental	
Temperature (operating)	0° C to 40° C (32° to 104° F)
Temperature (storage)	-40° C to 65° C (-40° to 149° F)
Humidity (operating)	10 to 80 percent relative humidity, non-condensing
Humidity (storage)	8 to 95 percent relative humidity, non-condensing
Altitude (operating)	Up to 10,000 ft (3,048 m)
Altitude (storage)	Up to 40,000 ft (12,192 m)
Management	
CLI	Full-featured CLI available over console port or SSH
GUI	Aruba EdgeConnect Enterprise Operating System (ECOS) includes a Web User Interface which manages an individual appliance. Aruba WAN Orchestrator provides centralized configuration, monitoring and management of multiple Aruba EdgeConnect Enterprise appliances
API	REST API at appliance level. Aruba WAN Orchestrator provides REST API for systems integration.
SNMP	SNMPv2c, SNMPv3
Secure access	SSH and HTTPS (Web UI)
Logging	Syslog with configurable levels
Authentication	Local database, RADIUS, TACACS+
Statistics	Graphing and monitoring, real-time and historical. NetFlow and IPFIX supported

Aruba EdgeConnect Enterprise XL-H (Extra-Large)

Capacity	
WAN bandwidth capacity (all features + encryption)	2 to 10 Gbps (bidirectional)
Simultaneous connections	2,000,000
Resiliency	
Power supplies	Dual redundant
Network	6 ports supporting any combination of WAN and LAN including support for up to 64 802.1q VLANs. WAN link redundancy supported via business intent overlays with multiple link bonding options. LAN-side protection includes VRRP and BGP. Multiple IPSLA options included.
Storage	ECOS: 960GB SSD, Network Memory (-NM): 3.2TB NVMe
Routing	BGP and OSPF supported



Technical Specifications

MTBF	Greater than 10 years
Security	
Disk encryption	128-bit AES
Network encryption (data plane)	IPsec (256-bit AES)
Network encryption (management plane)	TLS 1.2
Connectivity	
LAN/WAN ethernet	SKU JZ881A - 6 x 1/10Gbps SFP+ or 10/25Gbps SFP28 transceiver cages as per IEEE 802.3z, 802.3ae, 802.1Q, 802.3by, 802.3cc SKU SOB67A - 6 x 1/10Gbps SFP+ transceiver cages as per IEEE 802.3z, 802.3ae, 802.1Q
Management	2 x 10/100/1000; Console port
WAN Optimization	
Recommended Boost up to	5 Gbps
Power	
AC Requirement	SKU JZ881A - 435W / 1484 BTU SKU SOB67A - 413W / 1409 BTU
Power Adapter	1+1 Redundant, AC
Dimensions	
Height	1.69 in (42.9 mm) / 1U
Width	17.11 in (434.6 mm)
Depth	27.83 in (706.9 mm)
Weight	33.5 lbs (15.2 kg)
Regulatory	
EMC	FCC Part 15 Class A, CISPR 22/23, EN 55032 Class A, EN 55024, VCCI Class A, IEC 610003-2 / 3-3, EN 61000-3-2 / 3-3
Safety	UL 60950-1, IEC 60950-1, IEC 62368
Environmental	
Temperature (operating)	0° C to 40° C (32° to 104° F)
Temperature (storage)	-40° C to 65° C (-40° to 149° F)
Humidity (operating)	10 to 80 percent relative humidity, non-condensing
Humidity (storage)	8 to 95 percent relative humidity, non-condensing
Altitude (operating)	Up to 10,000 ft (3,048 m)
Altitude (storage)	Up to 40,000 ft (12,192 m)
Management	
CLI	Full-featured CLI available over console port or SSH
GUI	Aruba EdgeConnect Enterprise Operating System (ECOS) includes a Web User Interface which manages an individual appliance. Aruba WAN Orchestrator provides centralized configuration, monitoring and management of multiple Aruba EdgeConnect Enterprise appliances
API	REST API at appliance level. Aruba WAN Orchestrator provides REST API for systems integration.
SNMP	SNMPv2c, SNMPv3
Secure access	SSH and HTTPS (Web UI)
Logging	Syslog with configurable levels
Authentication	Local database, RADIUS, TACACS+
Statistics	Graphing and monitoring, real-time and historical. NetFlow and IPFIX supported



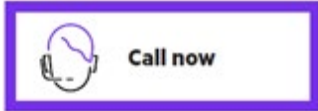
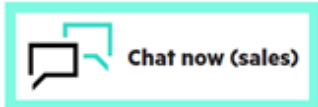
Summary of Changes

Date	Version History	Action	Description of Change
02-Oct-2023	Version 5	Changed	Configuration Information section was updated.
05-Sep-2023	Version 4	Changed	Standard Features, Configuration Information and Technical Specifications sections were updated.
05-Dec-2022	Version 3	Changed	Technical Specifications section was updated.
03-Oct-2022	Version 2	Changed	Configuration Information and Technical Specifications sections were updated. New EC-XL-H models added.
02-May-2022	Version 1	New	New QuickSpecs



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