Have feedback on QuickSpecs? We're listening

HPE Aruba Networking CX 6100 Switch Series QuickSpecs

The HPE Aruba Networking CX 6100 Switch Series is a modern family of entry level access switches ideal for enterprise branch offices and SMB networks.

Optimized for reliable, simple, and secure access, the HPE Aruba Networking CX 6100 Switch series switches provide a convenient wired access solution for networks supporting IoT, mobile and cloud applications.

The HPE Aruba Networking CX 6100 Switch series is based on the HPE Aruba Networking ASIC architecture with the programmable AOS-CX operating system used across the entire HPE Aruba Networking CX portfolio for a more consistent, more efficient operator experience.

Overview

This fully managed Layer 2 switch series has convenient built-in high-speed uplinks with up to 370W of PoE to support IoT devices, such as security cameras and wireless APs, and includes a compact and fanless model ideal for use in quiet workspaces.

The HPE Aruba Networking CX 6100 Switch series supports management choices that include Web GUI, CLI, cloud-based and on-premises HPE Aruba Networking Central, so you can choose the best fit for your needs today with flexibility to change without replacing hardware. With enhanced access security, traffic prioritization, and IPv6 support, the HPE Aruba Networking CX 6100 Switch series also simplifies ownership and brings peace of mind with switch software embedded with no subscription required to enable and a Limited Lifetime Warranty.



HPE Aruba Networking CX 6100 Switch Series

Key Features

- Non-blocking performance
- Enterprise-class Layer 2 connectivity with support for ACLs, robust QoS and static routing
- Convenient built-in 1/10GbE uplinks and up to 740W of Class 4 PoE for support of IoT devices
- Support for up to 6 switches (or members) in a stack via chain or ring topology
- Compact and fanless 12 port model for quiet deployment
- Manage via single pane of glass with HPE Aruba Networking Central across wired, wireless, and WAN
- Automated configuration and verification with HPE Aruba Networking Multi-Edit
- Software defined ready with REST APIs
- Simplify adds, moves and changes with colorless ports
- Scalability with 6-member switch VSF stacking

Product Features

HPE Aruba Networking CX operating system

The HPE Aruba Networking CX 6100 Switch Series is based on AOS-CX, a modern, database-driven operating system that is built on a modular architecture. This operating system provides the following unique capabilities:

- Easy access to all network configuration state information
- REST APIs for fine-grained programmability of network tasks
- A micro-services architecture that enables full integration with other workflow systems and services
- All software processes communicate with the database rather than each other, ensuring near real-time state and resiliency

HPE Aruba Networking ASICs - Programmable innovation

Based on over 30 years of continuous investment, HPE Aruba Networking ASICs create the basis for innovative and agile software feature advancements, unparalleled performance, and deep visibility. These programmable ASICs are purpose-built to allow for a tighter integration of switch hardware and software within campus and data center architectures to optimize performance and capacity. The HPE Aruba Networking CX 6100 Switch Series is based on the HPE Aruba Networking ASIC architecture.

HPE Aruba Networking Central - Unified single pane of glass management

Flexible cloud-based or on-premises management for unified network operations of wired, WLAN, SD-WAN, and public cloud infrastructure. Designed to simplify day zero through day two operations with streamlined workflows. Switch management capabilities include configuration, onboarding, monitoring, troubleshooting, and reporting.

HPE Aruba Networking CX Multi-Edit – Automated switch configuration and management

The entire HPE Aruba Networking CX portfolio empowers IT teams to orchestrate multiple switch configuration changes for smooth end-to-end service rollouts. HPE Aruba Networking NetEdit introduces automation that allows for rapid network-wide changes and ensures policy conformance post network updates. Intelligent capabilities include search, edit, validation (including conformance checking), deployment and audit features. Capabilities include:

- Centralized configuration with validation for consistency and compliance
- Time savings via simultaneous viewing and editing of multiple configurations
- Customized validation tests for corporate compliance and network design
- Automated large-scale configuration deployment without programming

Notes: A separate software license is required to use HPE Aruba Networking NetEdit.

Mobility and IoT performance

The HPE Aruba Networking CX 6100 Switch Series uses advanced ASICS developed by HPE Aruba Networking, unlocking very low latency, increased packet buffering, and adaptive power consumption. Each switch includes the following:

- Up to 176 Gbps in non-blocking bandwidth and up to 98.6 Mpps for forwarding
- Selectable queue configurations that allow for increased performance by defining a number of queues and associated memory buffering to best meet the requirements of network applications

VSF Stacking - Scale and Simplicity

The Virtual Switching Framework (VSF) enables your network with high performance front plane stacking. Additional features include:

- Support for up to 6 switches (or members) in a stack via chain or ring topology
- CX 6100 12-port switches only stack with other CX 6100 12-port switches

Standard Features

- CX 6100 24 and 48-port switches will stack with other CX 6100 24 and 48-port switches
- VSF stacking between the CX 6100 12-port switch and CX 6100 24 and 48-port switches is Not Supported.
- Simplified configuration and management as the switches act as a single chassis when stacked
- Flexibility to create stacks that span longer distances such as hundreds of meters across campuses to kilometers between sites using long-range 10GbE transceivers
- VSF Links: 1/10G SFP Fiber and Copper Ports
- VSF stacking requires AOS-CX 10.16.1006 or later software

Simplified moves, adds, and changes

Reduce manual IT operation tasks around initial deployment or on-going configuration changes to accommodate adds, moves and changes with colorless ports using local user roles and local-MAC-Authentication (LMA). Instead of statically pre-configuring access ports to VLANs and maintaining the switch port to VLAN mapping, colorless ports can automatically apply the role/policy required.

Enterprise-class access connectivity

To address branch office and small enterprise environments, the HPE Aruba Networking CX 6100 Switch series family includes five fixed 1U models. Each switch includes built-in high speed uplinks that automatically detect the use of 1G or 10G transceivers to deliver non-blocking performance. Additional highlights:

- 1U models support 24 and 48 access ports of IEEE 802.3 1GbE with four built-in 1GbE/10GbE uplink SFP+ ports. The 24 port PoE models support up to 370W and the 48 pot PoE models support up to 740W IEEE 802.3at Class 4 Power over Ethernet for up to 30W per port
- Compact and fanless model supports 12 ports of IEEE 802.3 1GbE with four uplinks (two built-in 1GbE/10GbE uplink SFP/SFP+ ports, two built-in 1GbE ports), and 139W IEEE 802.3at Class 4 Power over Ethernet for up to 30W per port
- Support for Energy Efficient Ethernet IEEE 802.3az reduces power consumption during periods of low network traffic
- Support for pre-standard PoE detects and provides power to pre-standard PoE devices
- Auto-MDIX provides automatic adjustments for straight through or crossover cables on all 10/100/1000 ports
- Unsupported Transceiver Mode (UTM) allows to insert and enable all unsupported 1G and 10G transceivers and cables. Note that there is no warranty nor support for the transceiver/cable when this feature is used
- Jumbo frames allow for high-performance backups and disaster-recovery systems; provides a maximum frame size of 9198 bytes
- Packet storm protection against broadcast, multicast and unknown unicast storms with user-defined thresholds

Resiliency and availability

To support a highly-available Layer 2 access deployment, the HPE Aruba Networking CX 6100 Switch series supports the following features:

- Uni-directional Link Detection (UDLD) to monitor link connectivity and shut down ports at both ends if unidirectional traffic is detected, preventing loops in STPbased networks
- IEEE 802.3ad LACP supports up to 8 LAGs, each with up to 8 links per LAG; and provides support for static or dynamic groups and a user-selectable hashing algorithm
- IEEE 802.1s Multiple Spanning Tree provides high link availability in VLAN environments where multiple spanning trees are required; and legacy support for IEEE 802.1d and IEEE 802.1w
- SmartLink provides easy-to-configure link redundancy of active and standby links

Standard Features

Quality of Service (QoS) features

To support congestion actions and traffic prioritization, the HPE Aruba Networking CX 6100 Switch series includes the following:

- Strict priority (SP) queuing
- Traffic prioritization (IEEE 802.1p) for real-time classification
- Class of Service (CoS) sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ
- Rate limiting sets per-port ingress enforced maximums and per-port, per-queue minimums
- Large buffers for graceful congestion management

Simplified configuration and management

The HPE Aruba Networking CX 6100 Switch series supports a choice of management interfaces including, easy to use Web GUI, industry standard. CLI, HPE Aruba Networking NetEdit, and HPE Aruba Networking Central for unified network operations of wired, WLAN, SD-WAN, and public cloud infrastructure. Features include:

- Built-in programmable and easy-to-use REST API interface
- Industry-standard CLI with a hierarchical structure for reduced training time and expense. Delivers increased productivity in multivendor environments
- sFlow (RFC 3176) is ASIC-based wire speed network monitoring and accounting with no impact on network performance; network operators can gather a variety of network statistics and information for capacity planning and real-time network monitoring purposes
- Management security restricts access to critical configuration commands, provides multiple privilege levels with password protection and local and remote syslog capabilities allow logging of all access
- SNMPv1/v2c/v3 support provides Read capability of industry standard Management Information Base (MIB), and private extensions
- SNMP support includes: Write Set Speed and Duplex, Write Port Security, Write POE Priority, Write Config Mgmt, SNMP-Read single OID for average CPU and memory, SNMP MIB View
- SNMP Trap include: Transceiver Traps (insertion/removal), SNMP Trap, SNMP MIB-SNMB Authentication, SNMPv2 MIB, Port Sec MIB-Port Sec, Config MIB-Running Config Change, Config MIB, AAA Server MIB, AAA Server State
- Remote monitoring (RMON) with standard SNMP to monitor essential network functions. Supports events, alarms, history, and statistics groups as well as a private alarm extension group
- TFTP and SFTP support offers different mechanisms for configuration updates; trivial FTP (TFTP) allows bidirectional transfers over a TCP/ IP network; Secure File Transfer Protocol (SFTP) runs over an SSH tunnel to provide additional security
- Debug and sampler utility supports ping and traceroute for IPv4 and IPv6
- Network Time Protocol (NTP) synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among all clock-dependent devices within the network so the devices can provide diverse applications based on the consistent time
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP) advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications
- Dual flash images provide independent primary and secondary operating system files for backup while upgrading
- Multiple configuration files can be stored to a flash image
- Unidirectional link detection (UDLD) monitors the link between two switches and blocks the ports on both ends of the link if the link goes down at any point between the two devices

Standard Features

Layer 2 Switching

The following Layer 2 services are supported:

- VLAN support and tagging support for IEEE 802.1Q (4094 VLAN IDs) and 512 VLANs simultaneously
- Jumbo packet support improves the performance of large data transfers; supports frame size of up to 9,220 bytes
- Rapid Per-VLAN Spanning Tree (RPVST+) allows each VLAN to build a separate spanning tree to improve link bandwidth usage; is compatible with PVST+
- STP supports standard IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
- MVRP allows automatic learning and dynamic assignment of VLANs
- Bridge Protocol Data Unit (BPDU) tunneling transmits STP BPDUs transparently, allowing correct tree calculations across service providers, WANs, or MANs
- Port mirroring duplicates port traffic (ingress and egress) to a monitoring port; supports 4 mirroring groups
- Internet Group Management Protocol (IGMP) Controls and manages the flooding of multicast packets in a Layer
- 2 networks

Layer 3 Services

The following Layer 3 services are supported:

- Address Resolution Protocol (ARP) determines the MAC address of another IP host in the same subnet; supports static ARPs
- Domain Name System (DNS) provides a distributed database that translates domain names and IP addresses, which simplifies network design; supports client and server
- Supports internal loopback testing for maintenance purposes and increased availability; loopback detection protects against incorrect cabling or network configurations and can be enabled on a per-port or per
- VLAN basis for added flexibility
- Dynamic Host Configuration Protocol (DHCP) simplifies the management of large IP networks and supports client; DHCPv4 Relay support enables DHCP operation across subnets

Layer 3 Routing

The following Layer 3 routing services are supported:

- Static IP routing provides manually configured routes.
- Dual stack static IPv4 and IPv6 routing provides simple manually configured IPv4 and IPv6 routing
- Dual IP stack maintains separate stacks for IPv4 and IPv6 to ease the transition from an IPv4-only network to an IPv6-only network design

Multicast

- IGMP Snooping allows multiple VLANs to receive the same IPv4 multicast traffic, lessening network bandwidth demand by reducing multiple streams to each VLAN
- Multicast Listener Discovery (MLD) enables discovery of IPv6 multicast listeners; support MLD v1 and v2
- Internet Group Management Protocol (IGMP) utilizes Any-Source Multicast (ASM) to manage IPv4 multicast networks; supports IGMPv1, v2, and v3
- IP multicast snooping (data-driven IGMP) prevents flooding of IP multicast traffic

Standard Features

IPv6 capabilities

- IPv6 host enables switches to be managed in an IPv6 network
- Dual stack (IPv4 and IPv6) transitions from IPv4 to IPv6, supporting connectivity for both protocols
- MLD snooping forwards IPv6 multicast traffic to the appropriate interface
- IPv6 ACL/QoS supports ACL and QoS for IPv6 network traffic
- IPV6 static routing
- Security provides RA guard, dynamic IPv6 lockdown, and ND snooping

Security

- Each HPE Aruba Networking CX 6100 Switch Series comes with an integrated trusted platform module (TPM) for platform integrity. This ensures the boot process started from a trusted combination of AOS-CX switches. Other security features include:
- Access control list (ACL) support for both IPv4 and IPv6; allows for filtering traffic to prevent unauthorized users from accessing the network, or for controlling network traffic to save resources; rules can either deny or permit traffic to be forwarded; rules can be based on a Layer 2 header or a Layer 3 protocol header
- ACLs also provide filtering based on the IP field, source/ destination IP address/subnet, and source/ destination TCP/UDP port number on a per-VLAN or per-port basis
- Remote Authentication Dial-In User Service (RADIUS)
- Terminal Access Controller Access-Control System (TACACS+) delivers an authentication tool using TCP with encryption of the full authentication request, providing additional security
- Management access security for both on- and off-box authentication for administrative access. RADIUS or TACACS+ can be used to provide encrypted user authentication. Additionally, TACACS+ can also provide admin authorization services
- Control Plane Policing sets rate limit on control protocols to protect CPU overload from DOS attacks
- Supports multiple user authentication methods. Uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards
- Supports MAC-based client authentication
- Concurrent IEEE 802.1X, Web, and MAC authentication schemes per switch port accepts up to 32 sessions of IEEE 802.1X, Web, and MAC authentications
- Secure management access delivers secure encryption of all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
- Switch CPU protection provides automatic protection against malicious network traffic trying to shut down the switch
- ICMP throttling defeats ICMP denial-of-service attacks by enabling any switch port to automatically throttle ICMP traffic
- Identity-driven ACL enables implementation of a highly granular and flexible access security policy and VLAN assignment specific to each authenticated network user
- STP BPDU port protection blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- Dynamic IP lockdown works to block traffic from unauthorized hosts, preventing IP source address spoofing
- STP root guard protects the root bridge from malicious attacks or configuration mistakes
- Dynamic ARP protection blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- DHCP (snooping) protection blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- Supports DHCPv4 Relay

Standard Features

- Port security allows access only to specified MAC addresses, which can be learned or specified by the administrator
- MAC address lockout prevents particular configured MAC addresses from connecting to the network
- Source-port filtering allows only specified ports to communicate with each other
- Secure shell encrypts all transmitted data for secure remote CLI access over IP networks
- Secure Sockets Layer (SSL) encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- Secure FTP allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
- Critical Authentication Role ensures that important infrastructure devices such as IP phones are allowed network access even in the absence of a RADIUS server
- MAC Pinning allows non-chatty legacy devices to stay authenticated by pinning client MAC addresses to the port until the clients logoff or get disconnected
- Security banner displays a customized security policy when users log in to the switch
- Dynamic IPv4 Lockdown works with DHCP protection to block traffic from unauthorized hosts, preventing IP source address spoofing
- DHCP smart relay allows the DHCP relay agent to use secondary IP addresses when the DHCP server does not reply the DHCP-OFFER message

Convergence

- LLDP-MED (Media Endpoint Discovery) defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- PoE allocations supports multiple methods (allocation by usage or class, with LLDP and LLDP-MED) to allocate PoE power for more efficient power management and energy savings.
- Auto VLAN configuration for voice RADIUS VLAN: uses a standard RADIUS attribute and LLDP-MED to automatically configure a VLAN for IP phones
- Supports CDPv2 to configure legacy IP phones

Additional information

- Green initiative support for RoHS (EN 50581:2012) and WEEE regulations

Customer First, Customer Last Support

When your network is important to your business, then your business needs the backing of HPE Aruba Networking Support Services. Partner with HPE Aruba Networking product experts to increase your team productivity, keep pace with technology advances, software releases, and obtain break-fix support.

- Foundation Care for HPE Aruba Networking Support Services include priority access to HPE Aruba Networking Technical Assistance Center (TAC) engineers 24x7x365, flexible hardware and onsite support options, and total coverage for HPE Aruba Networking products. HPE Aruba Networking switches with assigned HPE Aruba Networking Central subscriptions benefit with option for additional hardware support only.
- HPE Aruba Networking Pro Care adds fast access to senior HPE Aruba Networking TAC engineers, who are assigned as a single point of contact for case management, reducing the time spent addressing and resolving issues.

For complete details on Foundation Care and HPE Aruba Networking Pro Care, please visit:
https://www.hpe.com/us/en/networking/hpe-aruba-networking-support-services.html

Standard Features

Warranty, Services And Support

- Limited Lifetime Warranty, see https://www.hpe.com/us/en/networking/hpe-aruba-networking-support-services.html for warranty and support information included with your product purchase
- For Software Releases and Documentation, refer to https://networkingsupport.hpe.com/
- For more detailed information on HPE Aruba Networking AOS-CX software release and features, please visit the AOS-CX Switch Software Documentation Portal
- Explore and compare switch features for each platform and software release on the HPE Aruba Networking Switch Feature Navigator
- For support and services information, visit https://www.hpe.com/us/en/networking/hpe-aruba-networking-support-services.html

IT ECO Declarations

IT ECO Declarations provide environmental information for a specific product or product family in an industry standard format developed by IT organizations in Sweden, Norway and Denmark.

For information on specific models, please visit the following hyperlink:
https://www.hpe.com/us/en/living-progress/environment/msds-specs-more/it-eco-products.html

BTO Models

6100

Description	SKU
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 740W Switch	R9Y04A
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 740W Switch PDU	R9Y04A#B2B
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 740W Switch PDU	R9Y04A#B2C
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 740W Switch 220v	R9Y04A#B2E
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 740W Switch NoLoc	R9Y04A#AC3
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch	JL675A
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch PDU	JL675A#B2B
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch PDU	JL675A#B2C
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch 220v	JL675A#B2E
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch NoLoc	JL675A#AC3
HPE Aruba Networking CX 6100 48G 4SFP+ Switch	JL676A
HPE Aruba Networking CX 6100 48G 4SFP+ Switch PDU	JL676A#B2B
HPE Aruba Networking CX 6100 48G 4SFP+ Switch PDU	JL676A#B2C
HPE Aruba Networking CX 6100 48G 4SFP+ Switch 220v	JL676A#B2E
HPE Aruba Networking CX 6100 48G 4SFP+ Switch NoLoc	JL676A#AC3
HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch	JL677A
HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch PDU	JL677A#B2B
HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch PDU	JL677A#B2C
HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch 220v	JL677A#B2E
HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch NoLoc	JL677A#AC3
HPE Aruba Networking CX 6100 24G 4SFP+ Switch	JL678A
HPE Aruba Networking CX 6100 24G 4SFP+ Switch PDU	JL678A#B2B
HPE Aruba Networking CX 6100 24G 4SFP+ Switch PDU	JL678A#B2C
HPE Aruba Networking CX 6100 24G 4SFP+ Switch 220v	JL678A#B2E
HPE Aruba Networking CX 6100 24G 4SFP+ Switch NoLoc	JL678A#AC3
HPE Aruba Networking CX 6100 12G Class4 PoE 2G/2SFP+ 139W Switch	JL679A
HPE Aruba Networking CX 6100 12G Class4 PoE 2G/2SFP+ 139W Switch PDU	JL679A#B2B
HPE Aruba Networking CX 6100 12G Class4 PoE 2G/2SFP+ 139W Switch PDU	JL679A#B2C
HPE Aruba Networking CX 6100 12G Class4 PoE 2G/2SFP+ 139W Switch 220v	JL679A#B2E
HPE Aruba Networking CX 6100 12G Class4 PoE 2G/2SFP+ 139W Switch NoLoc	JL679A#AC3

Rack Level Integration CTO Models

6100

Description	SKU
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 740W Switch	R9Y04A
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 740W Switch PDU	R9Y04A#B2B
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 740W Switch PDU	R9Y04A#B2C
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 740W Switch 220v	R9Y04A#B2E
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 740W Switch NoLoc	R9Y04A#AC3
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch	JL675A
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch PDU	JL675A#B2B
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch PDU	JL675A#B2C
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch 220v	JL675A#B2E
HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch NoLoc	JL675A#AC3
HPE Aruba Networking CX 6100 48G 4SFP+ Switch	JL676A
HPE Aruba Networking CX 6100 48G 4SFP+ Switch PDU	JL676A#B2B
HPE Aruba Networking CX 6100 48G 4SFP+ Switch PDU	JL676A#B2C
HPE Aruba Networking CX 6100 48G 4SFP+ Switch 220v	JL676A#B2E
HPE Aruba Networking CX 6100 48G 4SFP+ Switch NoLoc	JL676A#AC3
HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch	JL677A
HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch PDU	JL677A#B2B
HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch PDU	JL677A#B2C
HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch 220v	JL677A#B2E
HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch NoLoc	JL677A#AC3
HPE Aruba Networking CX 6100 24G 4SFP+ Switch	JL678A
HPE Aruba Networking CX 6100 24G 4SFP+ Switch PDU	JL678A#B2B
HPE Aruba Networking CX 6100 24G 4SFP+ Switch PDU	JL678A#B2C
HPE Aruba Networking CX 6100 24G 4SFP+ Switch 220v	JL678A#B2E
HPE Aruba Networking CX 6100 24G 4SFP+ Switch NoLoc	JL678A#AC3

Transceivers

Description	SKU
SFP Transceivers	
HPE Aruba Networking 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
HPE Aruba Networking 1G SFP LC LX 10km SMF Transceiver	J4859D
HPE Aruba Networking 1G SFP RJ45 100m Cat5e Transceiver	J8177E

Configuration Information

SFP+ Transceivers

HPE Aruba Networking 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
HPE Aruba Networking 10G SFP+ LC LR 10km SMF Transceiver	J9151E
HPE Aruba Networking 10G I-Temp BiDi LC 10km-Downstream SMF 1330/1270 Transceiver	S6H20A
HPE Aruba Networking 10G I-Temp BiDi LC 10km-Upstream SMF 1270/1330 Transceiver	S6H21A
HPE Aruba Networking 10G I-Temp BiDi LC 10km-Downstream SMF 1330/1270 TAA Transceiver	S6H22A
HPE Aruba Networking 10G I-Temp BiDi LC 10km-Upstream SMF 1270/1330 TAA Transceiver	S6H24A
HPE Aruba Networking 10G SR SFP+ LC 400m OM4 MMF C-Class Transceiver	S2P30A
HPE Aruba Networking 10G LR SFP+ LC 10km SMF C-Class Transceiver	S2P31A
HPE Aruba Networking 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
HPE Aruba Networking 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D

Switch Options

Description	SKU
Rack Mount Kits	
HPE Aruba Networking X414 1U Universal 4-post Rack Mount Kit	J9583B
India PDU Cable	
HPE Networking 2.0m C13 to C14 PDU India Power Cord	JL671A
HPE Networking 2.5m C15 to C14 PDU India Power Cord	JL672A
Cable Guard	
HPE Aruba Networking X511 12-port Cable Guard	JL742A
Compatible with JL679A only	
USB Console Cables	
HPE Aruba Networking USB-A reversible to USB-C PC-to-Switch 3m Cable	R9J32A
HPE Aruba Networking USB-C to USB-C PC-to-Switch 3m Cable	R9J33A
This cable is only compatible with the following Switches; JL675A, JL676A, JL677A, JL678A, JL679A, R9Y04A.	

Software

NetEdit

NetEdit / Single Node Subscription

HPE Aruba Networking CX Mobile App

Description	SKU
HPE Aruba Networking NetEdit Single Node 1yr Subscription E-STU	JL639AAE
HPE Aruba Networking NetEdit Single Node 3yr Subscription E-STU	JL640AAE

Configuration Information

Central

Cloud Services / 25XX/41XX/60XX/61XX Switch Foundation Subscriptions

HPE Aruba Networking Central Switch Class-1 Foundation 1 year Subscription E-STU	Q9Y68AAE
HPE Aruba Networking Central Switch Class-1 Foundation 3 year Subscription E-STU	Q9Y69AAE
HPE Aruba Networking Central Switch Class-1 Foundation 5 year Subscription E-STU	Q9Y70AAE
HPE Aruba Networking Central Switch Class-1 Foundation 7 year Subscription E-STU	Q9Y71AAE
HPE Aruba Networking Central Switch Class-1 Foundation 10 year Subscription E-STU	Q9Y72AAE

On-Prem Services / 25XX/4100i/6000/6100 Switch Foundation Subscriptions

HPE Aruba Networking Central on Prem Switch Class-1 Foundation 1 year Subscription E-STU	R6U73AAE
HPE Aruba Networking Central on Prem Switch Class-1 Foundation 3 year Subscription E-STU	R6U74AAE
HPE Aruba Networking Central on Prem Switch Class-1 Foundation 5 year Subscription E-STU	R6U75AAE
HPE Aruba Networking Central on Prem Switch Class-1 Foundation 7 year Subscription E-STU	R6U76AAE
HPE Aruba Networking Central on Prem Switch Class-1 Foundation 10 year Subscription E-STU	R6U77AAE

Advanced Services / 25XX or 8 to 16 port Switch Advanced Subscriptions

HPE Aruba Networking Central Switch Class1 Advanced 1-year Subscription E-STU	JZ525AAE
HPE Aruba Networking Central Switch Class1 Advanced 3-year Subscription E-STU	JZ526AAE
HPE Aruba Networking Central Switch Class1 Advanced 5-year Subscription E-STU	JZ527AAE
HPE Aruba Networking Central Switch Class1 Advanced 7-year Subscription E-STU	JZ528AAE
HPE Aruba Networking Central Switch Class1 Advanced 10-year Subscription E-STU	JZ529AAE

As-a-Service

Central

Cloud Services / 25XX Switch Foundation Subscriptions

HPE Aruba Networking Central Switch Class-1 Foundation 1 year Subscription SaaS	Q9Y68AAS
HPE Aruba Networking Central Switch Class-1 Foundation 3 year Subscription SaaS	Q9Y69AAS
HPE Aruba Networking Central Switch Class-1 Foundation 5 year Subscription SaaS	Q9Y70AAS
HPE Aruba Networking Central Switch Class-1 Foundation 7 year Subscription SaaS	Q9Y71AAS
HPE Aruba Networking Central Switch Class-1 Foundation 10 year Subscription SaaS	Q9Y72AAS

Add the Central Cloud SKUs to the HPE Aruba Networking Catalog as Standalone: HPE Aruba Networking > Network Management > Central > Cloud Services

Cloud Services / Switch Advanced AAS Licenses

HPE Aruba Networking Central Switch Class-1 Advanced 1 year Subscription SaaS	S0W67AAS
HPE Aruba Networking Central Switch Class-1 Advanced 3 year Subscription SaaS	S0W68AAS
HPE Aruba Networking Central Switch Class-1 Advanced 5 year Subscription SaaS	S0W69AAS

Configuration Information

HPE Aruba Networking Central Switch Class-1 Advanced 7 year Subscription SaaS	S0W70AAS
HPE Aruba Networking Central Switch Class-1 Advanced 10 year Subscription SaaS	S0W71AAS

For IRIS reference only. No action required for OCX and Clic

Technical Specifications

	HPE Aruba Networking CX 6100 48G Class4 PoE 4SFP+ 370W Switch (JL675A))	HPE Aruba Networking CX 6100 48G 4SFP+ Switch (JL676A)	HPE Aruba Networking CX 6100 24G Class4 PoE 4SFP+ 370W Switch (JL677A)
Description	48x ports 10/100/1000BASE-T Ports 4x 1G/10G SFP ports Supports PoE Standards IEEE 802.3af, 802.3at 1x USB-C Console Port 1x USB Type-A Host port	48x ports 10/100/1000BASE-T Ports 4x 1G/10G SFP ports 1x USB-C Console Port 1x USB Type-A Host port	24x ports 10/100/1000BASE-T Ports 4x 1G/10G SFP ports Supports PoE Standards IEEE 802.3af, 802.3at 1x USB-C Console Port 1x USB Type-A Host port
Power supplies	Fixed power supply (500W) Up to 370W of Class 4 PoE Power	Fixed power supply (65W)	Fixed power supply (500W) Up to 370W of Class 4 PoE Power
Fans	Fixed fans	Fixed fans	Fixed fans
Physical characteristics			
Dimensions	(H) 4.39 cm (W) 44.2 cm (D) 30.48 cm (1.73" x 17.4" x 12.0")	(H) 4.39 cm (W) 44.2 cm (D) 24.74 cm (1.73" x 17.4" x 9.74")	(H) 4.39 cm (W) 44.2 cm (D) 26.82 cm (1.73" x 17.4" x 10.56")
Configuration Weight	5.02 kg (11.07 lbs)	3.42 kg (7.54 lbs)	4.19kg (9.24 lbs)
Additional Specifications			
CPU	Dual Core ARM Cortex A9 @ 1016 Mhz	Dual Core ARM Cortex A9 @ 1016 Mhz	Dual Core ARM Cortex A9 @ 1016 Mhz
Memory and Flash	4 GB DDR3 16 GB eMMC	4 GB DDR3 16 GB eMMC	4 GB DDR3 16 GB eMMC
Packet Buffer	12.38MB (4.5MB Ingress/7.875MB Egress)	12.38MB (4.5MB Ingress/7.875MB Egress)	12.38MB (4.5MB Ingress/7.875MB Egress)
Performance			
Model Switching Capacity	176 Gbps	176 Gbps	128 Gbps
Model Throughput Capacity	98.6 Mpps	98.6 Mpps	95.2 Mpps
Average Latency (LIFO- 64- bytes packets)	1 Gbps: 1.9 µSec , 10 Gbps: 1.8 µSec	1 Gbps: 1.9 µSec , 10 Gbps: 1.8 µSec	1 Gbps: 1.5 µSec , 10 Gbps: 1.8 µSec
Switched Virtual Interfaces (dual stack)	16	16	16
IPv4 Host Table (ARP)	1,024	1,024	1,024
IPv6 Host Table (ND)	512	512	512
IPv4 Unicast Routes	512	512	512
IPv6 Unicast Routes	512	512	512
MAC Table Capacity	8,192	8,192	8,192
IGMP Groups	512	512	512
MLD Groups	512	512	512

Technical Specifications

IPv4/IPv6/MAC ACL Entries (ingress)	1914 / 957 / 1914	1914 / 957 / 1914	1914 / 957 / 1914
Environment			
Operating Temperature	32°F to 113°F (0°C to 45°C) up to 5000 ft (1.5 km) derate -1°C for every 1000 ft (305 m) from 5000 ft (1.5 km) to 10000 ft (3.0 km)	32°F to 113°F (0°C to 45°C) up to 5000 ft (1.5 km) derate -1°C for every 1000 ft (305 m) from 5000 ft (1.5 km) to 10000 ft (3.0 km)	32°F to 113°F (0°C to 45°C) up to 5000 ft (1.5 km) derate -1°C for every 1000 ft (305 m) from 5000 ft (1.5 km) to 10000 ft (3.0 km)
Operating Relative Humidity	15% to 95% at 104°F (40°C) non-condensing	15% to 95% at 104°F (40°C) non-condensing	15% to 95% at 104°F (40°C) non-condensing
Non-Operating	-40°F to 158°F (-40°C to 70°C) up to 15000 ft (4.6 km)	-40°F to 158°F (-40°C to 70°C) up to 15000 ft (4.6 km)	-40°F to 158°F (-40°C to 70°C) up to 15000 ft (4.6 km)
Non-Operating Storage Relative Humidity	15% to 90% @ 149°F (65°C) non-condensing	15% to 90% @ 149°F (65°C) non-condensing	15% to 90% @ 149°F (65°C) non-condensing
Max Operating Altitude	10000 feet (3 km) Max	10000 feet (3 km) Max	10000 feet (3 km) Max
Max Non-Operating Altitude	15000 feet (4.6 km) Max	15000 feet (4.6 km) Max	15000 feet (4.6 km) Max
Acoustic	Sound Power, LWAd = 4.3 Bel Sound Pressure, LpAm (Bystander) = 29.8 dB	Sound Power, LWAd = 3.6 Bel Sound Pressure, LpAm (Bystander)= 24.6 dB	Sound Power, LWAd = 3.9 Bel Sound Pressure, LpAm (Bystander)= 24.3 dB
Primary Airflow	Side-to-side	Side-to-side	Side-to-side
Electrical Characteristics			
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
AC Voltage	100-127 VAC / 200-240 VAC	100-127 VAC / 200-240 VAC	100-127 VAC / 200-240 VAC
Current	4.9 A / 2.4 A	0.8 A / 0.5 A	4.6 A / 2.3 A
Power Consumption (230 VAC)	Idle: 30.6W Max Power (w/o PoE): 45W Max Power (w/ PoE): 480W	Idle: 20.6W Max Power (w/o PoE): 44.2W	Idle: 22.9W Max Power (w/o PoE): 32.7W Max Power (w/ PoE): 455W
Safety	IEC / EN 62368-1: 2014 IEC / EN 62368-1: 2018 UL 62368-1: 2014, 2nd Ed., CSA C22.2 No. 62368-1:14, 2nd Ed.,	IEC / EN 62368-1: 2014 IEC / EN 62368-1: 2018 UL 62368-1: 2014, 2nd Ed., CSA C22.2 No. 62368-1:14, 2nd Ed.,	IEC / EN 62368-1: 2014 IEC / EN 62368-1: 2018 UL 62368-1: 2014, 2nd Ed. CSA C22.2 No. 62368-1:14, 2nd Ed.,
Emissions	VCCI-CISPR 32, Class A CNS 15936, Class A FCC CFR 47 Part 15, Class A EN 55032:2015 / A11:2020 / CISPR-32, Class A ICES-003 Issue 7: 2020, Class A AS/NZS CISPR 32: 2015, Class A	VCCI-CISPR 32, Class A CNS 15936, Class A FCC CFR 47 Part 15, Class A EN 55032:2015 / A11:2020 / CISPR-32, Class A ICES-003 Issue 7: 2020, Class A AS/NZS CISPR 32: 2015, Class A	VCCI-CISPR 32, Class A CNS 15936, Class A FCC CFR 47 Part 15, Class A EN 55032:2015 / A11:2020 / CISPR-32, Class A ICES-003 Issue 7: 2020, Class A AS/NZS CISPR 32: 2015, Class A

Technical Specifications

Lasers	IEC / EN 60825-1:2014, Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories - Optical Transceivers only)	IEC / EN 60825-1:2014, Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories - Optical Transceivers only)	IEC / EN 60825-1:2014, Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories - Optical Transceivers only)
Immunity			
Generic	CISPR 35: 2016	CISPR 35: 2016	CISPR 35: 2016
EN	EN 55035:2017 / A11:2020	EN 55035:2017 / A11:2020	EN 55035:2017 / A11:2020
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Mounting and Enclosure	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit included); horizontal surface mounting.		

Technical Specifications

	HPE Aruba Networking CX 6100 24G 4SFP+ Switch (JL678A)	HPE Aruba Networking CX 6100 12G Class4 PoE 2G/2SFP+ 139W Switch (JL679A)
Description	24x ports 10/100/1000BASE-T Ports 4x 1G/10G SFP ports 1x USB-C Console Port 1x USB Type-A Host port	12x ports 10/100/1000BASE-T Ports 2x 1G/10G SFP ports 2x 1GbE ports Supports PoE Standards IEEE 802.3af, 802.3at 1x USB-C Console Port 1x USB Type-A Host port
Power supplies	Fixed power supply (65W)	Fixed power supply (165W) Up to 139W of Class 4 PoE Power
Fans	Fixed fans	Fanless
Physical characteristics		
Dimensions	(H) 4.39 cm (W) 44.2 cm (D) 20.12 cm (1.73" x 17.4" x 7.92")	(H) 4.39 cm (W) 25.4 cm (D) 25.5 cm (1.73" x 10.0" x 10.04")
Configuration Weight	2.62 kg (5.78 lbs)	2.78 kg (6.13 lbs)
Additional Specifications		
CPU	Dual Core ARM Cortex A9 @ 1016 Mhz	Dual Core ARM Cortex A9 @ 1016 Mhz
Memory and Flash	4 GB DDR3 16 GB eMMC	4 GB DDR3 16 GB eMMC
Packet Buffer	12.38MB (4.5MB Ingress/7.875MB Egress)	12.38MB (4.5MB Ingress/7.875MB Egress)
Performance		
Model Switching Capacity	128 Gbps	68 Gbps
Model Throughput Capacity	95.2 Mpps	45.1 Mpps
Average Latency (LIFO-64-bytes packets)	1 Gbps: 1.5 µSec , 10 Gbps: 1.8 µSec	1 Gbps: 2.3 µSec , 10 Gbps: 2.6 µSec
Switched Virtual Interfaces (dual stack)	16	16
IPv4 Host Table (ARP)	1,024	1,024
IPv6 Host Table (ND)	512	512
IPv4 Unicast Routes	512	512
IPv6 Unicast Routes	512	512
MAC Table Capacity	8,192	8,192
IGMP Groups	512	512
MLD Groups	512	512
IPv4/IPv6/MAC ACL Entries (ingress)	1914 / 957 / 1914	1914 / 957 / 1914
Environment		
Operating Temperature	32°F to 113°F (0°C to 45°C) up to 5000 ft (1.5 km) derate -1°C for every 1000 ft (305 m) from 5000 ft (1.5 km) to 10000 ft (3.0 km)	32°F to 113°F (0°C to 45°C) up to 5000 ft (1.5 km) derate -1°C for every 1000 ft (305 m) from 5000 ft (1.5 km) to 10000 ft (3.0 km)

Technical Specifications

Operating Relative Humidity	15% to 95% at 104°F (40°C) non-condensing	15% to 95% at 104°F (40°C) non-condensing
Non-Operating	-40°F to 158°F (-40°C to 70°C) up to 15000 ft (4.6 km)	-40°F to 158°F (-40°C to 70°C) up to 15000 ft (4.6 km)
Non-Operating Storage Relative Humidity	15% to 90% @ 149°F (65°C) non-condensing	15% to 90% @ 149°F (65°C) non-condensing
Max Operating Altitude	10000 feet (3 km) Max	10000 feet (3 km) Max
Max Non-Operating Altitude	15000 feet (4.6 km) Max	15000 feet (4.6 km) Max
Acoustic	Sound Power, LWAd = 3.9 Bel Sound Pressure, LpAm (Bystander) = 20.9 dB	Sound Power, LWAd = 0 Bel Sound Pressure, LpAm (Bystander) = 0 dB
Primary Airflow	Side-to-side	-
Electrical Characteristics		
Frequency	50 / 60 Hz	50 / 60 Hz
AC Voltage	100-127 VAC / 200-240 VAC	100-127 VAC / 200-240 VAC
Current	0.6 A / 0.4 A	1.8 A / 0.9 A
Power Consumption (230 VAC)	Idle: 15.4W Max Power (w/o PoE): 33W	Idle: 16W Max Power (w/o PoE): 21.9W Max Power (w/ PoE): 170W
Safety	IEC / EN 62368-1: 2014 IEC / EN 62368-1: 2018 UL 62368-1: 2014, 2nd Ed., CSA C22.2 No. 62368-1:14, 2nd Ed.	IEC / EN 62368-1: 2014 IEC / EN 62368-1: 2018 UL 62368-1: 2014, 2nd Ed., CSA C22.2 No. 62368-1:14, 2nd Ed.
Emissions	VCCI-CISPR 32, Class A CNS 15936, Class A FCC CFR 47 Part 15, Class A; EN 55032:2015 / A11:2020 / CISPR-32, Class A ICES-003 Issue 7: 2020, Class A AS/NZS CISPR 32: 2015, Class A	VCCI-CISPR 32, Class A CNS 15936, Class A FCC CFR 47 Part 15, Class A; EN 55032:2015 / A11:2020 / CISPR-32, Class A ICES-003 Issue 7: 2020, Class A AS/NZS CISPR 32: 2015, Class A
Lasers	IEC / EN 60825-1:2014, Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories - Optical Transceivers only)	IEC / EN 60825-1:2014, Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories - Optical Transceivers only)
Immunity		
Generic	CISPR 35: 2016	CISPR 35: 2016
EN	EN 55035:2017 / A11:2020	EN 55035:2017 / A11:2020
ESD	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8

Technical Specifications

Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Mounting and Enclosure		
	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit included); horizontal surface mounting.	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit included); horizontal surface mounting; wall mounting; Kensington Security Slot

HPE Aruba Networking CX 6100 48G CL4 4SFP+ 740W Sw (R9Y04A)

Specifications	
Description	48x ports 10/100/1000BASE-T Class 4 PoE Ports Supports PoE Standards IEEE 802.3af, 802.3at 4x 1/10G SFP Ports 1x USB-C console port 1x USB Type-A Host port
Power supplies	Fixed power supply (950 W)
Fans	Fixed fans
Physical characteristics	
Dimensions	(H) 4.39 cm x (W) 44.25 cm x (D) 32.42 cm (1.73" x 17.42" x 12.77")
Configuration Weight	4.7 kg (10.36 lbs)
Additional Specifications	
CPU	Dual Core ARM CortexTM A9 @ 1016 MHz
Memory and Flash	4 GB DDR3 16GB eMMC 128 MB Flash ROM
Packet Buffer	12.38MB and 4.5MB Ingress/7.875MB Egress
Performance	
Model Switching Capacity	176 Gbps
Model Throughput Capacity	98.6 Mpps
Average Latency (LIFO-64-bytes packets)	1Gbps: 1.9 µs 10Gbps: 1.8 µs
Switched Virtual Interfaces (dual stack)	16
IPv4 Host Table (ARP)	1,024
IPv6 Host Table (ND)	512
IPv4 Unicast Routes	512
IPv6 Unicast Routes	512

Technical Specifications

MAC Table Capacity	8,192
IGMP Groups	512
MLD Groups	512
IPv4/IPv6/MAC ACL Entries (ingress)	1914 / 957 / 1914
Environment	
Operating Temperature	32°F to 113°F (0°C to 45°C) up to 5000 ft derate -1°C for every 1000 ft from 5000 ft to 10000 ft
Operating Relative Humidity	5% to 95% at 104°F (40°C) non-condensing
Non-Operating	-40°F to 158°F (-40°C to 70°C) up to 15000 ft
Non-Operating Storage Relative Humidity	5% to 90% @ 149°F (65°C) non-condensing
Max Operating Altitude	10000 feet (3 km) Max
Max Non-Operating Altitude	15000 feet (4.6 km) Max
Acoustic	Sound Power, LWAd = 4.95 Bel Sound Pressure, LpAm (Bystander) = 35.91 dB
Primary Airflow	Side-to-side
Electrical Characteristics	
Frequency	50 / 60 Hz
AC Voltage	100-127 VAC / 200-240 VAC
Current	9.2 A / 4.9 A
Power Consumption (230 VAC)	Idle: 37.5W Max Power (w/o PoE): 49.7W Max Power (w/ PoE): 890W
Safety	IEC / EN 62368-1: 2014 IEC / EN 62368-1: 2018 UL 62368-1: 2014, 2nd Ed., CSA C22.2 No. 62368-1:14, 2nd Ed.,
Emissions	VCCI-CISPR 32, Class A CNS 15936, Class A FCC CFR 47 Part 15, Class A; EN 55032:2015 / A11:2020 / CISPR-32, Class A ICES-003 Issue 7: 2020, Class A AS/NZS CISPR 32: 2015, Class A
Lasers	IEC / EN 60825-1:2014, Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories - Optical Transceivers only)
Immunity	
Generic	CISPR 35: 2016
EN	EN 55035:2017 / A11:2020
ESD	IEC 61000-4-2
Radiated	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4

Technical Specifications

Surge	IEC 61000-4-5
Conducted	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11
Harmonics	IEC / EN 61000-3-2
Flicker	IEC / EN 61000-3-3
Mounting and Enclosure	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting.

Standards And Protocols (Applies to all products in series)

- RFC 1591 DNS (client)
- SSHv1/SSHv2 Secure Shell
- IEEE 802.1D MAC Bridges
- IEEE 802.1p Priority
- IEEE 802.1Q VLANs
- IEEE 802.1s Multiple Spanning Trees
- IEEE 802.1w Rapid Reconfiguration of Spanning Tree
- IEEE 802.3 Type 10BASE-T
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.3at Power over Ethernet
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.3x Flow Control
- RFC 768 UDP
- RFC 783 TFTP Protocol (revision 2)
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 1350 TFTP Protocol (revision 2)
- RFC 2131 DHCP client
- RFC 4330 Simple Network Time Protocol (SNTP) v4
- RFC 951 BOOTP (VLAN 1 Only)
- RFC 1542 BOOTP Extensions (VLAN 1 only)
- IGMPv2/IGMPv3
- IGMP/MLD Snooping
- RFC 8201 Path MTU Discovery for IPv6
- RFC 2460 IPv6 Specification
- RFC 2925 Remote Operations MIB (Ping only)
- RFC 3315 DHCPv6 (client only)
- RFC 3513 IPv6 Addressing Architecture
- RFC 3596 DNS Extension for IPv6
- RFC 3176 sFlow
- RFC 4022 MIB for TCP
- RFC 4113 MIB for UDP (Partially)
- RFC 4251 SSHv6 Architecture
- RFC 4252 SSHv6 Authentication
- RFC 4253 SSHv6 Transport Layer
- RFC 4254 SSHv6 Connection
- RFC 4293 MIB for IP
- RFC 4419 Key Exchange for SSH
- RFC 4443 ICMPv6
- RFC 4861 IPv6 Neighbor Discovery
- RFC 4862 IPv6 Stateless Address Auto-configuration
- RFC 1213 MIB
- RFC 1493 Bridge MIB

Technical Specifications

- RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
  (Partial support. MIB objects supported: ieee8021BridgeBasePort, ieee8021BridgeBasePort, ieee8021BridgePortMrpJoinTime, ieee8021BridgePortMrpLeaveTime, ieee8021BridgePortMrpLeaveAllTime)
- RFC 2737 Entity MIB
- RFC 2863 The Interfaces Group MIB
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- RFC 1098 A Simple Network Management Protocol (SNMP)
- ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
- SNMPv1/v2c/v3
- RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
- RFC 1098 A Simple Network Management Protocol (SNMP)
- RFC 2474 DiffServ precedence, with 2/4/8 queues per port
- RFC 2475 DiffServ Architecture
- RFC 2597 DiffServ Assured Forwarding (AF)
- RFC 2598 DiffServ Expedited Forwarding (EF)
- IEEE 802.1X Port Based Network Access Control
- RFC 1492 TACACS+
- RFC 2138 RADIUS Authentication
- RFC 2866 RADIUS Accounting
- Secure Sockets Layer (SSL)

Summary of Changes

Date	Version History	Action	Description of Change
15-Jun-2026	Version 27	Changed	New SFP+ Transceiver SKUs were added in Configuration Information section: S6H20A, S6H21A, S6H22A, S6H24A
04-May-2026	Version 26	Changed	Standard Features and Technical Specifications sections were updated.
06-Apr-2026	Version 25	Changed	Key Features were updated, from 8 to 6 member. SKUs added for Rule #2: S6H20A, S6H21A, S6H22A, S6H24A. Technical Specifications section was updated.
05-Jan-2026	Version 24	Changed	Overview, Standard Features, and Technical Specifications sections were updated.
10-Nov-2025	Version 23	Changed	Overview and Standard Features sections were updated.
03-Mar-2025	Version 22	Changed	Configuration Information section was updated.
02-Dec-2024	Version 21	Changed	Overview and Standard Features sections were updated.
06-Aug-2024	Version 20	Changed	Configuration Information section was updated.
01-Apr-2024	Version 19	Changed	Configuration Information section was updated.
04-Dec-2023	Version 18	Changed	Series name was updated.
14-Aug-2023	Version 17	Changed	Configuration Information section was updated.
15-May-2023	Version 16	Changed	Configuration Information section was updated.
01-May-2023	Version 15	Changed	Overview, Standard Features, Configuration Information, and Technical Specifications sections were updated.
13-Mar-2023	Version 14	Changed	Configuration Information section was updated.
06-Feb-2023	Version 13	Changed	Configuration Information section was updated.
05-Dec-2022	Version 12	Changed	Configuration Information section was updated.
07-Nov-2022	Version 11	Changed	Standard Features and Technical Specifications sections were updated.
06-Jun-2022	Version 10	Changed	Standard Features and Configuration Information sections were updated.
07-Feb-2022	Version 9	Changed	Configuration Information section was updated, new SKUs were added.
06-Dec-2021	Version 8	Changed	Standard Features section was updated.
01-Nov-2021	Version 7	Changed	Standard Features section was updated.
04-Oct-2021	Version 6	Changed	Configuration Information section was updated.
07-Sep-2021	Version 5	Changed	Configuration Information section was updated.
09-Aug-2021	Version 4	Changed	Technical Specifications section was updated
07-Jun-2021	Version 3	Changed	Overview, Standard Features, and Configuration Information sections were updated.
06-Apr-2021	Version 2	Changed	Standard Features section was updated.
04-Jan-2021	Version 1	New	New QuickSpecs

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