# HPE Aruba 6000 12G Class4 PoE 2G/2SFP 139W Switch(R8N89A#ACC)
## HPE Aruba 6000 12G Class4 PoE 2G/2SFP 139W Switch - Switch - Managed - 12 x 10/100/1000 (PoE+) + 2 x Gigabit SFP + 2 x 1000Base-T - rack-mountable - PoE (139 W)

The Aruba CX 6000 Switch Series is modern family of entry level access switches ideal for branch offices,midsize businesses,and small enterprises. Designed for reliable,simple,and security-enhanced access,the Aruba CX 6000 series provides a convenient and cost-effective wired access solution for networks supporting IoT,mobile,and cloud applications.

The Aruba CX 6000 series is based on the Aruba ASIC architecture with the programmable AOS-CX operating system used across the entire Aruba CX portfolio for a more consistent,more efficient operator experience. This fully-managed series has convenient built-in uplinks with up to 370W of Class 4 PoE to support IoT devices such as security cameras and wireless APs. A compact model is ideal for use in quiet,small work spaces. The Aruba CX 6000 series is easy to deploy and use with flexible management choices,allowing the best fit for your business and network environment.

## Key Selling Points

Simplify IT operations with modern Layer 2 Gigabit Ethernet switch series that provides entry level,reliable,and convenient wired access connectivity

Convenient built-in 1GbE uplinks and up to 370W of Class 4 PoE for support of access points,client,and IoT devices

Compact PoE model for space-constrained deployments

Flexibility to manage and simplify configurations with Aruba NetEdit,easy to use Web GUI,or industry standard CLI

Software defined ready with REST APIs

## Product Features

### Entry-level Aruba CX access layer switches

The Aruba CX 6000 Switch Series offers Ethernet gigabit connectivity and PoE to provide entry level,reliable,and convenient wired access connectivity for enterprise branch offices and SMB networks. Using Aruba AOS-CX operating system across Aruba CX switching platforms and access-to-core-to-data center deployment domains provides a simpler,more consistent operator experience. Fully-managed enterprise class switches deliver Layer 2 capabilities with support static routing,ACLs,robust QoS,traffic prioritization,sFlow,and IPv6 support.

### Performance and power

The Aruba CX 6000 Switch Series is designed with Aruba ASICs that deliver very low latency,increased packet buffering,and adaptive power consumption. Deploy wireless access points and IoT devices with Aruba CX 6000 switch models that support up to 370W IEEE 802.3at Class 4 Power over Ethernet for up to 30W per port.

### Simplified configuration and management

The Aruba CX 6000 Switch Series provides flexibility to manage and simplify configurations with Aruba NetEdit,easy to use Web GUI,or industry standard CLI. Aruba NetEdit introduces automation that allows for rapid network-wide changes,and verifies policy conformance post network updates. Software-defined ready with REST APIs for fine-grained programmability of network tasks. 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).

## Main Specifications

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|---|---|
| Product Description | HPE Aruba 6000 12G Class4 PoE 2G/2SFP 139W Switch - switch - 12 ports - Managed - rack-mountable |
| Device Type | Switch - 12 ports - Managed - stackable |
| Enclosure Type | Rack-mountable 1U |
| Subtype | Gigabit Ethernet |
| Ports | 12 x 10/100/1000 (PoE+) + 2 x Gigabit SFP + 2 x 1000Base-T |
| Power Over Ethernet (PoE) | PoE |
| PoE Budget | 139 W |
| Performance | Packet buffer size:12.38 MB ¦ Throughput:23.8 Mpps ¦ Switching capacity:32 Gbps ¦ Latency (1 Gbps):2.3 µs ¦ Latency (10 Gbps):2.6 µs |
| Capacity | Switched virtual interfaces (SVIs):16 ¦ ARP entries:1024 ¦ IPv4 routes (Unicast):512 ¦ IPv6 routes (Unicast):512 ¦ IGMP groups:512 ¦ MLD groups:512 ¦ IPv4 ACL entries (ingress):256 ¦ IPv6 ACL entries (ingress):128 ¦ MAC ACL entries (ingress):256 |
| MAC Address Table Size | 8192 entries |
| Jumbo Frame Support | 9198 bytes |

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|---|---|
| Routing Protocol | IGMPv2,IGMPv3 |
| Remote Management Protocol | SNMP 1,SNMP 3,SNMP 2c,HTTP,HTTPS,RADIUS |
| Features | Flow control,BOOTP support,ARP support,VLAN support,DiffServ support,IPv6 support,SNTP support,sFlow,Multiple Spanning Tree Protocol (MSTP) support,Trivial File Transfer Protocol (TFTP) support,Access Control List (ACL) support,MLD snooping,Trusted Platform Module (TPM),fanless,LACP support,LLDP support,DHCP client,Management Information Base (MIB),Neighbor Discovery Protocol (NDP),SNMP support,Internet Control Message Protocol (ICMP),DNS client,LLDP-MED,User Datagram Protocol (UDP),Rapid Reconfiguration of Spanning Tree (RSTP),IPv6 addressing |
| Compliant Standards | IEEE 802.3,IEEE 802.1D,IEEE 802.1Q,IEEE 802.3ab,IEEE 802.1p,IEEE 802.3af,IEEE 802.3x,IEEE 802.3ad (LACP),IEEE 802.1w,IEEE 802.1s,IEEE 802.3at,IEEE 802.3az |
| Power | AC 100-240 V (50/60 Hz) |
| Dimensions (WxDxH) | 25.4 cm x 25.5 cm x 4.39 cm |
| Weight | 2.78 kg |
| Localisation | English / United Kingdom |
| Manufacturer Warranty | Limited lifetime warranty |

## Extended Specification

**General**

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|---|---|
| Device Type | Switch - 12 ports - Managed - stackable |
| Enclosure Type | Rack-mountable 1U |
| Subtype | Gigabit Ethernet |
| Ports | 12 x 10/100/1000 (PoE+) + 2 x Gigabit SFP + 2 x 1000Base-T |
| Power Over Ethernet (PoE) | PoE |
| PoE Budget | 139 W |
| Performance | Packet buffer size:12.38 MB<br>Throughput:23.8 Mpps<br>Switching capacity:32 Gbps<br>Latency (1 Gbps):2.3 µs<br>Latency (10 Gbps):2.6 µs |
| Capacity | Switched virtual interfaces (SVIs):16<br>ARP entries:1024<br>IPv4 routes (Unicast):512<br>IPv6 routes (Unicast):512<br>IGMP groups:512<br>MLD groups:512<br>IPv4 ACL entries (ingress):256<br>IPv6 ACL entries (ingress):128<br>MAC ACL entries (ingress):256 |
| MAC Address Table Size | 8192 entries |
| Jumbo Frame Support | 9198 bytes |
| Routing Protocol | IGMPv2,IGMPv3 |
| Remote Management Protocol | SNMP 1,SNMP 3,SNMP 2c,HTTP,HTTPS,RADIUS |
| Encryption Algorithm | SSL |
| Authentication Method | Secure Shell (SSH),RADIUS,TACACS+,Secure Shell v.2 (SSH2) |
| Features | Flow control,BOOTP support,ARP support,VLAN support,DiffServ support,IPv6 support,SNTP support,sFlow,Multiple Spanning Tree Protocol (MSTP) support,Trivial File Transfer Protocol (TFTP) support,Access Control List (ACL) support,MLD snooping,Trusted Platform Module (TPM),fanless,LACP support,LLDP support,DHCP client,Management Information Base (MIB),Neighbor Discovery Protocol (NDP),SNMP support,Internet Control Message Protocol |

| | |
|---|---|
| | (ICMP),DNS client,LLDP-MED,User Datagram Protocol (UDP),Rapid Reconfiguration of Spanning Tree (RSTP),IPv6 addressing |
| Compliant Standards | IEEE 802.3,IEEE 802.1D,IEEE 802.1Q,IEEE 802.3ab,IEEE 802.1p,IEEE 802.3af,IEEE 802.3x,IEEE 802.3ad (LACP),IEEE 802.1w,IEEE 802.1s,IEEE 802.3at,IEEE 802.3az |
| Processor | 1 x ARM A9:1.016 GHz |
| RAM | 4 GB DDR3 SDRAM |
| Flash Memory | 16 GB |

**Expansion / Connectivity**

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| Interfaces | 12 x 10/100/1000 Base-T RJ-45 PoE Class 4 - 139 W<br>2 x 10Gbit LAN SFP<br>2 x Gigabit LAN<br>1 x USB Type A<br>1 x USB-C console |

**Power**

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| Power Device | Internal power supply |
| Voltage Required | AC 100-240 V (50/60 Hz) |
| Power Consumption Operational | 21.9 Watt |

**Miscellaneous**

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|---|---|
| Compliant Standards | CISPR 24,EN 61000-3-2,IEC 61000-3-2,IEC 61000-3-3,IEC 61000-4-11,IEC 61000-4-2,IEC 61000-4-3,IEC 61000-4-4,IEC 61000-4-5,IEC 61000-4-6,IEC 61000-4-8,EN 61000-3-3,UL 60950-1,IEC 60950-1,EN 60950-1,EN 60825-1,CAN/CSA C22.2 No. 60950,CNS 13438,FCC CFR47 Part 15 A,ICES-003 issue 6 Class A,UL 62368-1 Second Edition,CISPR 32 Class A,EN 62368-1:2014,VCCI-CISPR 32:2016 Class A,CISPR 35,EN 55035:2017,EN 55032:2015/AC:2016-07 Class A,EN55024:2010:A1,IEC 62368-1 Second Edition |
| Localisation | English / United Kingdom |

**Dimensions & Weight**

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|---|---|
| Width | 25.4 cm |
| Depth | 25.5 cm |
| Height | 4.39 cm |
| Weight | 2.78 kg |

**Manufacturer Warranty**

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|---|---|
| Service & Support | Limited warranty - lifetime |

**Environmental Parameters**

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| Min Operating Temperature | 0 °C |
| Max Operating Temperature | 45 °C |
| Humidity Range Operating | 15 - 95% (non-condensing) |
| Humidity Range Storage | 15 - 90% (non-condensing) |