

**Arista**

**Arista CCS-720XP-48Y6-2F**

**Datasheet**



## Product Overview

- The Arista CCS-720XP series delivers next-generation network performance for intelligent campus environments, managed through Cognitive Campus Services.
- Ideal for university, enterprise, and multi-tenant campus deployments, it meets the needs of IT staff, integrators, and end-users seeking reliable access.
- Offers 48x PoE RJ45 ports supporting up to 90W each, with speeds from 10Mbps to 10Gbps, plus 6x SFP28 uplinks up to 25Gbps for high bandwidth.
- Features advanced capabilities like managed 802.3af/at/bt PoE, modular uplink options SFP+/SFP28/QSFP28, and support for high-density user workloads.
- Integrated with Arista EOS, it streamlines L2/L3, EVPN virtualization, and QoS, offering robust security via 802.2X access and device identification.
- Designed for flexible, scalable deployments, the CCS-720XP allows real-time monitoring via CloudVision, optimizing user and application experience in any campus scenario.

## Product Highlights

- **Cognitive Management Plane:** Arista EOS CMP provides advanced APIs for unified automation, monitoring, and fast, intelligent deployment for campus networks.
- **Unified EOS Software Architecture:** Runs the same modular EOS as other Arista devices, offering a reliable, scalable, and simplified management experience.
- **Real-Time FlowTracker:** Dedicated hardware FlowTracker monitors thousands of unique flows and supports device fingerprinting for enhanced security.
- **Flexible CloudVision Management:** Offers a single pane of glass for network provisioning, compliance, and analytics, available on-premises or as a SaaS.

## Detailed Features



### Arista CCS-720XP-48Y6-2F

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Component	Specification
Downlink Ports	48x 10/100/1000 Mbps PoE RJ45
Uplink Ports	6x 25 Gbps SFP28
Switch Family	720XP Series
PoE Technology	Supports 802.3af/at/bt, up to 90W per port
Switching Bandwidth	700 Gbps



## Cognitive Management and Automation

The Arista CCS-720XP leverages the Cognitive Management Plane (CMP) in EOS, providing advanced telemetry and open APIs. This enables rapid deployment, easy automation, and comprehensive monitoring of users, devices, and applications, reducing administrative complexity for large-scale campus networks.

## Unified, Modular EOS Platform

Running a single binary EOS software image across all Arista platforms, the switch simplifies operations with a fine-grained modular OS structure. The separation of switch state from processing logic ensures in-service upgrades and system resiliency, while supporting full Linux shell for integration with DevOps workflows.

## High-Performance Flow Analytics and Telemetry

Built-in hardware FlowTracker delivers real-time updates on device state, performance, and application flow metrics. Supporting IPFIX, each switch concurrently tracks thousands of flows and device fingerprints, helping security auditing and ensuring optimal performance under demanding workloads.

## Flexible and Scalable Networking

With modular uplink choices across RJ45, SFP+, SFP28, and QSFP28, the CCS-720XP offers flexible interconnects and scalable network design. Multi-rate interfaces and support for 1Gb-100Gbps optical/copper modules allow gradual network upgrades and protect legacy infrastructure investments.

## Comprehensive Security and Segmentation

Featuring 802.1X, RADIUS, and advanced segmentation methods including EVPN VXLAN and VRF, the switch enables secure, automated user and device admission. Effective segmentation controls help maintain data security and compliance in diverse campus environments.

## Dynamic Load Balancing and Redundancy

L2 MLAG and L3 ECMP load balancing, enhanced by Dynamic Load Balancing (DLB), optimize network utilization and resilience. DLB allows the switch to dynamically adjust resource allocations, supporting high-availability architectures and interoperability with other vendor equipment.

## Advanced Campus WiFi Integration

Hardware-based VXLAN de-encapsulation streamlines wireless traffic handling. This supports seamless WiFi segmentation, allowing unified wired-wireless policy enforcement and simplified network migrations for hybrid campus deployments.

## CloudVision Centralized Management

CloudVision delivers a modern, centralized management platform for provisioning, compliance, real-time analytics, and 3rd-party orchestration. Available as an appliance or SaaS, CloudVision unifies management for the data center, campus, and distributed campus-cloud environments.

# Technical Specifications

## Product Specifications

Feature	Value
Network Ports	48x 10/100/1000 Mbps PoE RJ45 (802.3af/at, up to 30W per port)
Uplink Ports	6x 25 Gbps SFP28
Management Ports	1x Console RJ45, 1x Gigabit Management RJ45, 1x USB
Product Family	720XP Series
CPU	Dual Core-x86
Switching Bandwidth	700 Gbps
Packet Buffer	6 MB
VLAN IDs	4096
Airflow Direction	Front-to-Back Airflow
Fan Module Options	3x FAN-7000-F Fan Modules Included



Feature	Value
Power Supplies Included	2x PWR-1021-AC-RED
PoE Budget	982W (with 1x 1050W AC PSU), 1850W (with 2x 1050W AC PSU), 1110W (with 2x 650W AC PSU), 857W (with 2x 500W DC PSU)
Throughput (FDX)	198 (396) Gbps
Forwarding Rate	294 Mpps
MAC Address Table Size	112,000
Latency	1.2 microseconds
DRAM and Flash	4 GB Flash, 4 GB System Memory
Part Number	CCS-720XP-48Y6-2F

## Product Comparison

Feature	Arista CCS-720XP-48Y6-2F	C9300L-24P-4G-E	C9300-48UB-E
Downlink Ports	48x 10/100/1000 Mbps PoE RJ45	24x 10/100/1000 Mbps PoE+	48x 10/100/1000 Mbps UPOE
Uplink Ports	6x 25 Gbps SFP28	4x 1G SFP	4x 10G SFP+
PoE Budget	Up to 1850W	370W	1440W
Switching Bandwidth	700 Gbps	56 Gbps	240 Gbps
Forwarding Rate	294 Mpps	83.33 Mpps	180 Mpps
Layer 3 Routing	Advanced, EVPN, VRF	OSPF, RIP, EIGRP, ISIS	OSPF, EIGRP, IS-IS, BGP
Redundancy	Dual redundant PSUs	Redundant PSU option	Field-replaceable PSU/fan
Management	CloudVision, EOS Modular OS	Web/CLI, SNMP, Cisco DNA	Web/CLI, SNMP, Cisco DNA
Stacking	Not specified	StackWise-160	StackWise-480



## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"><li>- 2x PWR-1021-AC-RED Power Supplies</li><li>- 3x FAN-7000-F Fan Modules</li><li>- Rack Mount Kit</li></ul>
Optional Accessories	<ul style="list-style-type: none"><li>- SFP+/SFP28 Transceiver Modules</li><li>- DC Power Supply Module</li><li>- Cable Management Arms</li></ul>



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## References

[1] Arista Networks. (2024). CCS-720XP Series Switches Datasheet. Retrieved from <https://www.arista.com/assets/data/pdf/Datasheets/CCS-720XP-Datasheet.pdf>