Overview

The Arista Cognitive Campus CCS-720 series switches deliver wire speed connectivity and power for all campus user workloads, under the management and monitoring of Arista Cognitive Campus Services. The suite of platforms offer a variety of connection options for user desktops, PoE appliances and IoT devices. Managed 802.3af/at/bt power services deliver up to 60W per RJ45 port, with speed options ranging from 10Mbps to 5Gbps. Modular SFP+, SFP28 and QSFP28 uplinks support speeds from 1Gbps to 100Gbps delivering network design flexibility and scalability.

Arista's common binary EOS provides a comprehensive, standards based, layer 2 and 3 feature set that includes EVPN virtualization and QoS services. EOS supports standards based 802.1X access control, and LLDP device identification services to automate admission and segmentation of users, appliances, plus all mission critical voice, video and general purpose applications in the campus. Together, Arista's family of switching and WiFi platforms are managed through a single Cognitive Campus management plane in CloudVision, providing sub-second real time telemetry, database archival and automated analytics to manage and monitor the infrastructure, users and applications in the Campus-Cloud Network.

Cognitive Campus

The Cognitive Management Plane (CMP) in Arista's EOS provides rich control and telemetry APIs used to simplify and automate the deployment, and maintenance of campus infrastructure while also providing real-time monitoring of campus users, applications and devices. As with all Arista platforms, EOS supports auto provisioning by way of Arista Zero Touch Provisioning (ZTP) to simplify device administration through CloudVision, or popular DevOps toolsets. In addition to legacy polling management, EOS CMP delivers real time telemetry to administrators using open GRPC/GNMI APIs used in OpenConfig, allowing administrators to create custom management tools.

Arista EOS

The Arista 720XP series runs the same Arista EOS software as all Arista products, simplifying network administration. Arista EOS is a modular switch operating system with a unique state sharing architecture that cleanly separates switch state from protocol processing and application logic. Built on top of a standard Linux kernel, all EOS processes run in their own protected memory space and exchange state through an in-memory database. This multi-process state sharing architecture provides the foundation for in-service-software updates and self-healing resiliency. With Arista EOS, advanced monitoring and automation capabilities such as Zero Touch Provisioning, VMTracer and Linux based tools can be run natively on the switch.

Product Highlights

Power over Ethernet plus 25/100G

720XP-96ZC2
- 80 x mGig (100M - 2.5Gb) RJ45 @ 60W
- 16 x mGig (100M - 5Gb) RJ45 @ 60W
- Uplinks: 4x 25G, 2x 100G

720XP-48ZC2
- 40 x mGig (100M - 2.5Gb) RJ45 @ 30W
- 8 x mGig (100M - 5Gb) RJ45 @ 60W
- Uplinks: 4x 25G, 2x 100G

720XP-48Y6
- 48 x 10M-1GbE RJ45 @ 30W
- Uplinks: 6x 25G

720XP-24Y6
- 24x 10M-1GbE RJ45 @ 30W
- Uplinks: 6x 25G

Segmentation and overlay
- 4096 802.1Q VLANs
- IPv4/v6 VRFs
- 16.7 Million VXLAN networks
- EVPN L2/3 (type 2/5)

Traffic and Flow Monitoring
- Hardware accelerated monitoring
- sFlow and IPFIX
- FlowTracker to inventory devices and monitor conversations

Cognitive Campus Resilience
- N+1 redundant power/cooling
- Active/Active MLAG aggregation
- Dynamic uplink load balancing
- ISSU for software upgrades and hitless patching

Arista Extensible Operating System
- Single binary image
- Fine-grained truly modular network OS
- Stateful Fault Containment (SFC)
- Stateful Fault Repair (SFR)
- Full access to Linux shell and tools
- Extensible platform - bash, python, C++, GO, OpenConfig
Driving the campus CMP (Cloud Management Plane) in the CCS-720 is the FlowTracker hardware telemetry feature (IPFIX), native in the CCS-720 series non-blocking switching processor. FlowTracker delivers real time updates for all device state, performance statistics, and application flows, without burdening other system functions. Over a thousand unique flows can be concurrently tracked per switch, with hardware support to scale to 32K flows. Device fingerprinting features are also supported, allowing the 720XP to identify connected device type, operating system and user id, helping facilitate security audits and workgroup/workload segmentation.

With the rich telemetry of the CCS-720, Arista’s CloudVision tracks application, user and device activity, measuring throughput and latency of key applications, user and device flows. CloudVision Device Analyzer (pictured above) baselines real time traffic to help alert administrators of performance or security outliers.

Customizable Topologies for Optimized Performance

As with all Arista devices, the CCS-720 switches support open, standards based, L2 MLAG and L3 ECMP load balancing features. Administrators can employ either scheme to deliver high availability load sharing at the core building, or intermediate distribution frame. The CCS-720’s Dynamic Load Balancing (DLB) feature improves on typical load sharing by dynamically tracking flow volumes and rebalancing them across shared links to optimize network utilization. DLB interoperates with other networking platforms, helping administrators improve the performance of their installed campus infrastructure.

The 720XP uses standard RJ45, SFP+, SFP28 and QSFP28 interfaces for in closet and uplink interconnections, giving administrators the freedom to choose the right media type and speed that suits campus use cases and their budget. In addition to the variety of SFP+ and QSFP+ copper and fiber modules that support speeds from 1Gb-100Gb are the 10G/25G multi-rate SFP+ optical modules. These optics allow administrators to invest in 25Gb but still run in 10Gb mode while connected to legacy infrastructure, thus simplifying campus migrations and reduce CapEx.

Cognitive Segmentation

The CCS-720 series supports industry standard 802.1X and RADIUS authentication schemes, and interoperates with leading authentication solutions. Authorized users and devices can be automatically segmented into assigned 802.1Q or EVPN VXLAN segmented networks, facilitating infrastructure and data security. Wire-speed layer 3 VRF segmentation is also supported, giving administrators additional flexibility for supporting the most sophisticated campus use cases. The CCS-720 switches also help administrators with WiFi segmentation by providing hardware based VXLAN de-encapsulation of tunneled WiFi traffic.

CloudVision

CloudVision is Arista’s management plane solution for simplifying network operations. Built on a modern state-streaming architecture, CloudVision is a multi-function software platform that enables a suite of capabilities for automated provisioning, change control, continuous compliance, real-time telemetry, predictive analytics and 3rd party management plane orchestration. As a multi-domain solution, CloudVision is a single management platform across data center, campus, WiFi, multi-cloud, and routing interconnect use-cases. The same CloudVision software is offered as an on-prem appliance (virtual or physical) as well as CloudVision as-a-Service, which is a Arista-managed SaaS solution.
Cognitive PoE for Mission Critical Services

Power efficiency, flexible options, power prioritization and constant PoE allow the CCS-720 series switches to support critical campus services like video security and emergency communications. 802.3af, at and bt power options deliver from 15-60W to RJ45 ports. The CCS-720 platinum rated power supplies, coupled with its low nominal consumption leaves an ample power budget for connected appliances and IoT devices. A choice of 650W or 1050W single or redundant AC power supply and 700W DC power supply options allow administrators to customize power allocation and redundancy to meet their use cases and budget.

Dynamic Power Management

Arista leverages state of the art switching and power management technology that not only delivers enhanced power delivery options supporting the latest standards, but does so more efficiently and reliably than standard PoE delivery, so administrators can support more devices cost effectively. Dynamic PoE management enhances power budgeting and allocation features to help economize power allocation to powered devices (PD) connected to each switch dynamically allocating PoE power based on priority settings. Load sharing Power Supplies allow customers to share a common PoE bank between the power supplies within a switch, optimizing unused power bank typically allocated for the board to power more PoE devices. Persistent PoE provides power to the powered device (PD) connected to a PoE port even when the Power Sourcing Equipment (PSE) is rebooting. With cognitive campus monitoring, power configuration and utilization are tracked in real time and archived, so administrators can accurately monitor and report service levels and infrastructure power demands.

720XP Campus PoE | Model Overview

+ Net of max system power
Power supplies and Fans
Campus CCS-720 series switches support N+1 redundant power supplies. The 720XP 24/48 port switches ship with one or two power supply by default, and the second power supply can be purchased when the switch is ordered or at a later time. If only one power supply is installed, it should always be in power supply bay #1. The switches also ship with three field-replaceable fans. The CCS-720 96 port switch ship with two or four power supplies by default, and the third and forth power supply can be purchased when the switch is ordered or at a later time.

### Power Supply Models

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Power Supplies Supported</td>
<td>1050W 2000W</td>
<td>650W 1050W 2000W</td>
<td>650W 1050W</td>
<td>650W (F-R and R-F) 1050W 700W (DC)</td>
<td>650W (F-R and R-F) 1050W 700W (DC)</td>
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<td>Default Power Supply(ies)</td>
<td>2 X 1050W</td>
<td>1050W</td>
<td>650W</td>
<td>1050W</td>
<td>650W</td>
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<tr>
<td>System Power (Typ/Max)</td>
<td>216W/236W</td>
<td>141W/156W</td>
<td>141W/156W</td>
<td>68W/93W</td>
<td>67W/90W</td>
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<tr>
<td>+Default Available PoE Power</td>
<td>1727W/1707W</td>
<td>909W/1787W</td>
<td>509W/1787W</td>
<td>982W/1850W</td>
<td>583W/1853W</td>
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<td>+Dual 650W AC PS</td>
<td>—</td>
<td>1062W/1047W</td>
<td>1062W/1047W</td>
<td>1135W/1110W</td>
<td>1136W/1113W</td>
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<td>+Dual 1050W AC PS</td>
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<td>1802W/1787W</td>
<td>1802W/1787W</td>
<td>1875W/1850W</td>
<td>1876W/1853W</td>
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<tr>
<td>+Dual 700W DC PS</td>
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<td>—</td>
<td>—</td>
<td>1227W/1202W</td>
<td>1228W/1205W</td>
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<tr>
<td>+Dual 2000 W AC PS</td>
<td>3584W/3564W</td>
<td>3659W/3644W</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>+Four 1050W AC PS</td>
<td>3512W/3492W</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>+Four 2000 W AC PS</td>
<td>7184W/7164W</td>
<td>—</td>
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*+ Net of system power (Typical/Max)*

### Power Supply Specifications

<table>
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<tr>
<td>Output Power</td>
<td>700W</td>
<td>650W</td>
<td>1050W</td>
<td>2000W</td>
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<td>Input Voltage</td>
<td>-48 to -60VDC</td>
<td>100-240AC</td>
<td>100-240AC</td>
<td>100-127AC 200-220AC 220-240AC</td>
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<td>Input Current</td>
<td>25A</td>
<td>8 - 3.5A</td>
<td>12 - 5A</td>
<td>12A 11A 10A</td>
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<td>Input Frequency</td>
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<td>50-60Hz</td>
<td>50-60Hz</td>
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<td>Input Connector</td>
<td>AWG #12 #10</td>
<td>IEC-320-C16</td>
<td>IEC-320-C16</td>
<td>IEC-320-C16</td>
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<td>Efficiency</td>
<td>90%</td>
<td>80+ Gold</td>
<td>80+ Platinum</td>
<td>80+ Platinum</td>
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## Specifications

<table>
<thead>
<tr>
<th>Feature/Model</th>
<th>720XP-96ZC2</th>
<th>720XP-48ZC2</th>
<th>720XP-24ZY4</th>
<th>720XP-48Y6</th>
<th>720XP-24Y6</th>
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<tr>
<td><strong>Ports</strong></td>
<td>96 RJ45</td>
<td>48 RJ45</td>
<td>24 RJ45</td>
<td>48 RJ45</td>
<td>24 RJ45</td>
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<td></td>
<td>2 100G QSFP</td>
<td>2 100G QSFP</td>
<td>3 100G QSFP</td>
<td>3 100G QSFP</td>
<td>3 100G QSFP</td>
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<td>10M-1G UTP (30W 802.3af/at)</td>
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<td>N/A</td>
<td>N/A</td>
<td>48</td>
<td>24</td>
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<td>100M-2.5G UTP (30W 802.3af/at)</td>
<td>0</td>
<td>40</td>
<td>16</td>
<td>N/A</td>
<td>N/A</td>
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<td>100M-2.5G UTP (60W 802.3bt)</td>
<td>80</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td>100M-5G UTP (60W 802.3bt)</td>
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<td>8</td>
<td>N/A</td>
<td>N/A</td>
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<td>25G SFP</td>
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<td>4</td>
<td>4</td>
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<td>100G QSFP</td>
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<td>N/A</td>
<td>N/A</td>
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<td>Throughput (FDX)</td>
<td>580 (1160) Gbps</td>
<td>440 (880) Gbps</td>
<td>180 (360)Gbps</td>
<td>198 (396)Gbps</td>
<td>174 (348)Gbps</td>
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<td>Packets/Second</td>
<td>863 Mpps</td>
<td>654Mpps</td>
<td>268Mpps</td>
<td>294Mpps</td>
<td>259Mpps</td>
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<td>Latency (RJ-45)</td>
<td>1.2 microseconds</td>
<td>1.2 microseconds</td>
<td>1.2 microseconds</td>
<td>1.2 microseconds</td>
<td>1.2 microseconds</td>
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<tr>
<td><strong>CPU</strong></td>
<td>Dual Core-x86</td>
<td>Dual Core-x86</td>
<td>Dual Core-x86</td>
<td>Dual Core-x86</td>
<td>Dual Core-x86</td>
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<tr>
<td><strong>System Memory</strong></td>
<td>4GB</td>
<td>4GB</td>
<td>4GB</td>
<td>4GB</td>
<td>4GB</td>
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<td><strong>System Flash</strong></td>
<td>8GB</td>
<td>8GB</td>
<td>8GB</td>
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<tr>
<td><strong>Packet Buffer</strong></td>
<td>16MB</td>
<td>8MB</td>
<td>8MB</td>
<td>8MB</td>
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<tr>
<td><strong>USB Ports</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td><strong>Console Ports</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td><strong>100M/1G Management port</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td><strong>Airflow</strong></td>
<td>Front-Rear</td>
<td>Front-Rear</td>
<td>Front-Rear</td>
<td>Front-Rear</td>
<td>Front-Rear</td>
</tr>
<tr>
<td><strong>Power Typical/Max(^1)</strong> (excluding PoE)</td>
<td>216W/236W</td>
<td>141W/156W</td>
<td>141W/156W</td>
<td>68W/93W</td>
<td>67W/90W</td>
</tr>
<tr>
<td><strong>Size (WxHxD)</strong></td>
<td>17.3 x 3.46 x 15.9 inches (44.0 x 8.8 x 40.5cm)</td>
<td>17.3 x 1.75 x 12.5 inches (44.0 x 4.4 x 31.75 cm)</td>
<td>17.3 x 1.75 x 12.5 inches (44.0 x 4.4 x 31.75 cm)</td>
<td>17.3 x 1.75 x 12.5 inches (44.0 x 4.4 x 31.75 cm)</td>
<td>17.3 x 1.75 x 12.5 inches (44.0 x 4.4 x 31.75 cm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>31 lb (14.1 kg)</td>
<td>15.6 lbs (7kg)</td>
<td>13.6 lbs (6.2kg)</td>
<td>15.3 lbs (6.9kg)</td>
<td>13.3 lbs (6kg)</td>
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<tr>
<td><strong>Fans: 3 (N+1 redundant)</strong></td>
<td>FAN-7012M-RED</td>
<td>FAN-7000-F</td>
<td>FAN-7000-F</td>
<td>FAN-7000-F/R</td>
<td>FAN-7000-F/R</td>
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<td><strong>Maximum Power Supply</strong></td>
<td>4</td>
<td>2</td>
<td>2</td>
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<td><strong>Power Supply</strong></td>
<td>PWR-1021-AC</td>
<td>PWR-1021-AC</td>
<td>PWR-1021-AC</td>
<td>PWR-621-AC</td>
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<td>PWR-2021-AC</td>
<td>PWR-2021-AC</td>
<td>PWR-2021-AC</td>
<td>PWR-721-DC</td>
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<td><strong>EOS License Group</strong></td>
<td>LIC-FIX-G</td>
<td>LIC-FIX-G</td>
<td>LIC-FIX-G</td>
<td>LIC-FIX-G</td>
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<tr>
<td><strong>Minimum EOS</strong></td>
<td>4.24(FX)</td>
<td>4.21</td>
<td>4.21</td>
<td>4.22 (FX)</td>
<td>4.22 (FX)</td>
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</tbody>
</table>

\(^1\) Typical 20% traffic @24\(^\circ\)C max; 100% @46\(^\circ\)C
Arista 720XP-96ZC2
Provides:
- 80 x mGig (100M - 2.5GbE) RJ45 @ 60W
- 16 x mGig (100M - 5GbE) RJ45 @ 60W
- Uplinks: 4x 25G, 2x 100G
- 2240Gbps switching bandwidth

Arista 720XP-48ZC2
Provides:
- 40 x mGig (100M - 2.5GbE) RJ45 @ 30W
- 8 x mGig (100M - 5GbE) RJ45 @ 60W
- Uplinks: 4x 25G, 2x 100G
- 1120Gbps switching bandwidth

Arista 720XP-48Y6
Provides:
- 48 x 10M - 1GbE RJ45 @ 30W
- Uplinks: 6 x 25G
- 700Gbps switching bandwidth

Arista 720XP-24ZY4
Provides:
- 16 x mGig (100M - 2.5GbE) RJ45 @ 30W
- 8 x mGig (100M - 5GbE) RJ45 @ 60W
- Uplinks: 4 x 25G
- 1120Gbps switching bandwidth

Arista 720XP-24Y6
Provides:
- 24 x 10M - 1GbE RJ45 @ 30W
- Uplinks: 6 x 25G
- 400Gbps switching bandwidth

**Campus Overlay Scale**

The CCS-720 series switches utilizes data center class virtualization features to provide hundreds of segmented networks to thousands of users and devices. In addition to 4K 802.1Q VLANs, the CCS-720 delivers 16.7 million VXLAN overlay networks with CVX and EVPN control plane support. The combination of virtualization scale plus the layer 2 and 3 hardware scale of the CCS-720 series ensures administrators can implement large segmented and secure campus networks with the ability to scale in the future.

<table>
<thead>
<tr>
<th>Scalability</th>
<th>Mode 0</th>
<th>Mode 1</th>
<th>Mode 2†</th>
<th>Mode 3</th>
<th>Mode 4</th>
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<tbody>
<tr>
<td>MAC Addresses</td>
<td>112k</td>
<td>96k</td>
<td>64k</td>
<td>32k</td>
<td>16k</td>
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<tr>
<td>IPv4 Host Routes</td>
<td>16K</td>
<td>32k</td>
<td>64K</td>
<td>96k</td>
<td>16k</td>
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<tr>
<td>IPv4 LPM Routes</td>
<td>16K</td>
<td>16K</td>
<td>16K</td>
<td>16K</td>
<td>144K</td>
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<tr>
<td>IPv6 LPM Routes</td>
<td>8K</td>
<td>8K</td>
<td>8K</td>
<td>8K</td>
<td>72K</td>
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<td>IGMP Groups</td>
<td></td>
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<td>4K</td>
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<td>IPv4 Multicast Groups</td>
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<td>8K</td>
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<td>ACL Entries (Ingress/Egress)</td>
<td></td>
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<td>7.6K/1K</td>
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</tbody>
</table>

*User modes includes per table customizable option
†Default mode
### Layer 2 Features
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree Protocol
- Rapid Per VLAN Spanning Tree (RPVST+)
- 4096 VLANs
- Q-in-Q
- 802.3ad Link Aggregation/LACP
  - 64 Ports / Channel
  - 224 groups per system
- MLAG (Multi-Chassis Link Aggregation)
  - Uses IEEE 802.3ad LACP
  - 128 ports per MLAG
- 802.1Q VLANs/Trunking
- 802.1AB Link Layer Discovery Protocol
- 802.3x Flow Control
- 802.1Q VLANs/Trunking
- Jumbo Frames (9216 Bytes)
- IGMP v1/v2/v3 snooping
- Storm Control
- 802.1 AVB *
- SMPTE-2059-2 *
- VXLAN Tunnel Virtual Port Termination: 4K

### Layer 3 Features
- Routing Protocols: OSPF, OSPFv3, BGP, MP-BGP, IS-IS, and RIPv2
- 64-way Equal Cost Multi-path Routing (ECMP)
- Resilient ECMP Routes
- VRF
- Bi-Directional Forwarding Detection (BFD)
- Route Maps
- IGMP v2/v3
- PIM-SM / PIM-SSM * / PIM-BiDiR
- Anycast RP (RFC 4610)
- VRRP
- Virtual ARP (VARP)
- Policy Based Routing (PBR)
- Unicast Reverse Path Forwarding (uRPF)
- GRE IP Decap
- Selective Route Download

### Advanced Monitoring and Provisioning
- Latency Analyzer and Microburst Detection (LANZ)
- Configurable Congestion Notification (CLI, Syslog) *
- Streaming Events (GPB Encoded) *
- Capture/Mirror of congested traffic *
- Zero Touch Provisioning (ZTP)
- Integrated packet capture/analysis with TCPDump
- Advanced Mirroring - Port Mirroring (16 sessions)
  - Enhanced Remote Port Mirroring
  - Port Mirroring (4 active sessions)
  - L2/3/4 Filtering on Mirror Sessions
- Advanced Event Management suite (AEM)
  - CLI Scheduler
  - Event Manager

### Quality of Service (QoS) Features
- Up to 8 queues per port
- 802.1p based classification
- DSCP based classification and remarking
- Explicit Congestion Notification (ECN)
- QoS interface trust (COS / DSCP)
- Strict priority queuing
- Weighted Round Robin (WRR) Scheduling
- Per-Priority Flow Control (PFC)
- ACL based DSCP Marking
- ACL based Policing
- Policing/Shaping
- Rate limiting

* Not currently supported in EOS
PoE Capabilities
- LLDP enhancements for PoE including Media Endpoint Discovery (MED) attributes reporting
- PoE Controls
- VLAN for VoIP, QoS

Network Management
- CloudVision
- Configuration session commit and rollback
- 100/1000 Management Port
- RS-232 Serial Console Port
- USB Port
- SNMP v1, v2, v3
- Management over IPv6
- Telnet and SSHv2
- Syslog
- AAA
- Industry Standard CLI
- Beacon LED for system identification
- System Logging
- Environment monitoring
- MLAG ISSU
- Maintenance mode

Extensibility
- Linux Tools
  - Bash shell access and scripting
  - RPM support
  - Custom kernel modules
- Programmatic access to system state
  - Python
  - C++
  - Go
- Native KVM/QEMU support

Standard Compliance
- 802.1D Bridging and Spanning Tree
- 802.1p QOS/COS
- 802.1Q VLAN Tagging
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree Protocol
- 802.1AB Link Layer Discovery Protocol
- 802.3ad Link Aggregation with LACP
- 802.3az Energy Efficient Ethernet (EEE) *
- 802.3x Flow Control
- 802.3u 100BASE-TX
- 802.3ab 1000BASE-T
- 802.3z 1000BASE-X
- 802.3ae 10 Gigabit Ethernet
- 802.3af/at 15W/30W Power over Ethernet (PoE)
- 802.3bt 60W Power over Ethernet (PoE)
- 802.3by 25 Gigabit Ethernet
- 802.3ba 40 Gigabit Ethernet
- 802.3ba 100 Gigabit Ethernet
- RFC 2460 Internet Protocol, Version 6 (IPv6) Specification
- RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)
- RFC 2462 IPv6 Stateless Address Auto-configuration
- RFC 2463 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification
- IEEE 1588-2008 Precision Time Protocol

SNMP
- RFC 3635 EtherLike-MIB
- RFC 3418 SNMPv2-MIB
- RFC 2863 IF-MIB
- RFC 2864 IF-INVERTED-STACK-MIB
- RFC 2096 IP-FORWARD-MIB
- RFC 4363 Q-BRIDGE-MIB
- RFC 4188 BRIDGE-MIB
- RFC 2013 UDP-MIB
- RFC 2012 TCP-MIB
- RFC 2011 IP-MIB
- RFC 2790 HOST-RESOURCES-MIB
- RFC 3636 MAU-MIB
- RMON-MIB
- RMON2-MIB
- HC-RMON-MIB
- LLDP-MIB
- LLDP-EXT-DOT1-MIB
- LLDP-EXT-DOT3-MIB
- ENTITY-MIB
- ENTITY-SENSOR-MIB
- ENTITY-STATE-MIB
- ARISTA-ACL-MIB
- ARISTA-QUEUE-MIB
- RFC 4273 BGP4-MIB
- RFC 4750 OSPF-MIB
- ARISTA-CONFIG-MAN-MIB
- ARISTA-REDUNDANCY-MIB
- RFC 2787 VRRPv2MIB
- MSDP-MIB
- PIM-MIB
- IGMP-MIB
- IPRMROUTE-STD-MIB
- SNMP Authentication Failure trap
- ENTITY-SENSOR-MIB support for DOM (Digital Optical Monitoring)
- User configurable custom OIDs

See EOS release notes for Supported MIBs

*Not currently supported in EOS
## Supported Optics and Cables

<table>
<thead>
<tr>
<th>Interface Type</th>
<th>40/100G QSFP Ports</th>
</tr>
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<tbody>
<tr>
<td>10GBASE-CR</td>
<td>0.5m to 5m QSFP+ to 4x SFP+</td>
</tr>
<tr>
<td>40GBASE-CR4</td>
<td>0.5m to 5m QSFP+ to QSFP+</td>
</tr>
<tr>
<td>40GBASE-AOC</td>
<td>3m to 100m</td>
</tr>
<tr>
<td>40GBASE-UNIV</td>
<td>150m (OM3) / 150m (OM4) / 500m (SM)</td>
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<tr>
<td>40GBASE-SRBD</td>
<td>100m (OM3) / 150m (OM4)</td>
</tr>
<tr>
<td>40GBASE-SR4</td>
<td>100m (OM3) / 150m (OM4)</td>
</tr>
<tr>
<td>40GBASE-XSR4</td>
<td>300m (OM3) / 400m (OM4)</td>
</tr>
<tr>
<td>40GBASE-PLRL4</td>
<td>1km (1km 4x10G LR/LRL)</td>
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<tr>
<td>40GBASE-LRL4</td>
<td>1km</td>
</tr>
<tr>
<td>40GBASE-PLR4</td>
<td>10km (10km 4x10G LR/LRL)</td>
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<tr>
<td>40GBASE-LR4</td>
<td>10km</td>
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<tr>
<td>40GBASE-ER4</td>
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<tr>
<td>100G</td>
<td>100G</td>
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<tr>
<td>100GBASE-SR4</td>
<td>70m OM3 / 100m OM4 Parallel MMF</td>
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<tr>
<td>100GBASE-SWDM4</td>
<td>70m OM3 / 100m OM4 Duplex MMF</td>
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<tr>
<td>100GBASE-SRBD</td>
<td>70m OM3 / 100m OM4 Duplex MMF</td>
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<tr>
<td>100GBASE-LR4</td>
<td>10km SM Duplex</td>
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<tr>
<td>100GBASE-LRL4</td>
<td>2km SM Duplex</td>
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<tr>
<td>100GBASE-CWDM4</td>
<td>2km SM Duplex</td>
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<tr>
<td>100GBASE-XCWDMD4</td>
<td>10km SM Duplex</td>
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<tr>
<td>100GBASE-PSM4</td>
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<td>100GBASE-AOC</td>
<td>1m to 30m</td>
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<tr>
<td>100GBASE-ERL4</td>
<td>40km SM Duplex</td>
</tr>
<tr>
<td>100GBASE-CR4</td>
<td>QSFP to QSFP: 1m to 5m</td>
</tr>
<tr>
<td>10G</td>
<td>10G</td>
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<tr>
<td>10GBASE-CR</td>
<td>SFP+ to SFP+: 0.5m-5m</td>
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<tr>
<td>10GBASE-AOC</td>
<td>SFP+ to SFP+: 3m-30m</td>
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<tr>
<td>10GBASE-T</td>
<td>100m</td>
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<tr>
<td>10GBASE-SRL</td>
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<tr>
<td>10GBASE-SR</td>
<td>300m</td>
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<tr>
<td>10GBASE-LR</td>
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<td>10GBASE-ER</td>
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<td>10GBASE-ZR</td>
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<tr>
<td>10GBASE-DWDM</td>
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<tr>
<td>100Mb TX, 1GbE SX/LX/TX</td>
<td>Yes</td>
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<tr>
<td>25G</td>
<td>25G</td>
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<tr>
<td>25GBASE-CR</td>
<td>QSFP to SFP+: 1m-5m lengths</td>
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<tr>
<td>25GBASE-AOC</td>
<td>SFP+ to SFP+: 3m-30m</td>
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<tr>
<td>25G-MR-XSR (10/25G Multi)</td>
<td>up to 200M/300M over OM3/OM4</td>
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<tr>
<td>25GBASE-SR</td>
<td>70m</td>
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<tr>
<td>25G-MR-LR (10/25G Multi)</td>
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<tr>
<td>25GBASE-LR</td>
<td>10km</td>
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</table>
## Environmental Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0 to 40°C (32 to 104°F)</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-40 to 70°C (-40 to 158°F)</td>
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<tr>
<td><strong>Relative Humidity</strong></td>
<td>5 to 95%</td>
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<tr>
<td><strong>Operating Altitude</strong></td>
<td>0 to 10,000 ft, (0-3,000m)</td>
</tr>
</tbody>
</table>
| **Measured sound (ISO 7779)** declared (ISO 9296) at 50% & 100% power | Lwa (dB) 57.59/68.17 (1RU)  
Lwa(dB) 68.47/78.18 (2RU) |

## Emissions and Safety Compliance

### EMC Emissions Immunity
- Emissions: FCC, EN55032, EN61000-3-2, EN61000-3-3
- Immunity: EN55024, EN55035
- Emissions and Immunity: EN300 386

### Safety
- UL/CSA 60950-1, EN 62368-1, IEC 62368-1, IEC 60950-1
- CB Scheme with all country differences

### Certifications
- North America (NRTL)
- European Union (EU)
- BSMI (Taiwan)
- RCM (Australia)
- CCC (PRC)
- KC (S. Korea)
- EAC (Eurasian Customs Union)
- VCCI (Japan)

### European Union Directives
- 2006/95/EC Low Voltage Directive
- 2004/108/EC EMC Directive
- 2011/65/EU RoHS Directive
- 2012/19/EU WEEE Directive
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<td>CCS-720XP-96ZC2#</td>
<td>Arista 720XP, 96 x 100M-5G PoE, 2 x 100G QSFP switch, front to rear air, Requires PSU/Fans</td>
</tr>
<tr>
<td>CCS-720XP-48ZC2-F</td>
<td>Arista 720XP, 40 x 100M-2.5G PoE, 8 x 100M-5G PoE, 4 x 25G SFP, 2 x 100G QSFP switch, front to rear air, 1 x 1050W AC</td>
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<tr>
<td>CCS-720XP-48Y6-F</td>
<td>Arista 720XP, 48 x 10/100M-1G PoE, 6 x 25G SFP switch, front to rear air, 1 x 1050W AC</td>
</tr>
<tr>
<td>CCS-720XP-48Y6-2F</td>
<td>Arista 720XP, 48 x 10/100M-1G PoE, 6 x 25G SFP switch, front to rear air, 2 x 1050W AC</td>
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<tr>
<td>CCS-720XP-48Y6#</td>
<td>Arista 720XP, 48 x 10/100M-1G PoE, 6 x 25G SFP switch, front to rear air, Requires PSU/Fans</td>
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<tr>
<td>CCS-720XP-24Y6-F-UK</td>
<td>Arista 720XP, 96 x 100M-5G PoE, 2 x 100G QSFP switch, front to rear air, 4 x 1050W AC, UK Power Cord</td>
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<tr>
<td>CCS-720XP-96ZC2-2F-UK</td>
<td>Arista 720XP, 96 x 100M-5G PoE, 2 x 100G QSFP switch, front to rear air, 2 x 1050W AC, UK Power Cord</td>
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<tr>
<td>CCS-720XP-96ZC2-4F-EU</td>
<td>Arista 720XP, 96 x 100M-5G PoE, 2 x 100G QSFP switch, front to rear air, 4 x 1050W AC, EU Power Cord</td>
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<td>Arista 720XP, 96 x 100M-5G PoE, 2 x 100G QSFP switch, front to rear air, 2 x 1050W AC, EU Power Cord</td>
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<tr>
<td>CCS-720XP-96ZC2-4F-C14</td>
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<td>CCS-720XP-48ZC2-F-C14</td>
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<td>Arista 720XP, 96 x 100M-5G PoE, 2 x 100G QSFP switch, front to rear air, 4 x 1050W AC, JPN Power Cord</td>
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<tr>
<td>CCS-720XP-48Y6-F-JPN</td>
<td>Arista 720XP, 48 x 10/100M-1G, 6 x 25G SFP switch, front to rear air, 1 x 1050W AC, JPN Power Cord</td>
</tr>
<tr>
<td>CCS-720XP-48Y6-2F-JPN</td>
<td>Arista 720XP, 48 x 10/100M-1G, 6 x 25G SFP switch, front to rear air, 2 x 1050W AC, JPN Power Cords</td>
</tr>
<tr>
<td>Product Number</td>
<td>Product Description</td>
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<tr>
<td>----------------</td>
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<tr>
<td>LIC-FIX-G-E</td>
<td>Enhanced License for Arista Fixed 1G/mG Ethernet Switches (OSPF, BGP, ISIS, PIM, VXLAN)</td>
</tr>
<tr>
<td>LIC-FIX-G-FLX-L</td>
<td>FLX-Lite License for Arista Fixed 1G/mG Ethernet Switches - Full Routing Up to 32K Routes, EVPN, VXLAN</td>
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<tr>
<td>SS-CV-G-SWITCH-1M</td>
<td>CloudVision SW Subscription License for 1-Month for 1 Switch. 1G Platforms. Includes Z.</td>
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<tr>
<td>SS-CV-LT-G-SWITCH-1M</td>
<td>CloudVision Lite SW Subscription License for 1-Month for 1 Switch. 1G Platforms.</td>
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<tr>
<td>PWR-621-AC-RED</td>
<td>Spare 650 Watt AC power supply for Arista 720XP 1RU Switches (front-to-rear airflow)</td>
</tr>
<tr>
<td>PWR-1021-AC-RED</td>
<td>Spare 1050 Watt AC power supply for Arista 720XP 1RU Switches (front-to-rear airflow)</td>
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<tr>
<td>PWR-2021-AC-RED</td>
<td>Spare 2000 Watt AC power supply for Arista 720XP 1RU Switches (front-to-rear airflow)</td>
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<tr>
<td>PWR-621-AC-BLUE</td>
<td>Spare 650 Watt AC power supply for Arista 720XP 1RU Switches (rear-to-front airflow)</td>
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<tr>
<td>PWR-721-DC-RED</td>
<td>Spare 700 Watt DC power supply for Arista 720XP 1RU Switches (front-to-rear airflow)</td>
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<tr>
<td>FAN-7012M-RED</td>
<td>Spare fan module for Arista 7000 Series 2RU Enhanced Fan Speed (front-to-rear airflow)</td>
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<tr>
<td>FAN-7000-F</td>
<td>Spare fan module for Arista 720XP, 7150, 7050X, and 7280 switches (front-to-rear airflow)</td>
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<tr>
<td>FAN-7000-R</td>
<td>Spare fan module for Arista 720XP, 7150, 7050X, and 7280 switches (rear-to-front airflow)</td>
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<tr>
<td>CCS-720-PCVR</td>
<td>Spare Blank Cover for 720 Series Power Supply Slot</td>
</tr>
<tr>
<td>KIT-CCS-720</td>
<td>Spare accessory kit for Arista 720XP 2RU Series switches</td>
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<tr>
<td>KIT-720</td>
<td>Spare accessory kit for Arista 720XP 1RU Series switches</td>
</tr>
<tr>
<td>KIT-GND-EXT-2RU</td>
<td>Arista 720XP series, 2RU ground extender kit for NEBS compliance</td>
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<tr>
<td>KIT-7010-4POST</td>
<td>Spare 4-post rack mount kit for 7010T and 720 switches</td>
</tr>
<tr>
<td>KIT-7010-2POST-23</td>
<td>Spare 2-post 23(^{rd}) rack mount kit for 7010T and 720 switches</td>
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<tr>
<td>CAB-C15-AUS</td>
<td>Power Cord, Australia, C15 to AS/NZS 3112, 8 Feet (2.5m)</td>
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<tr>
<td>CAB-C15-C15</td>
<td>Power Cord C15 to C14 (2m)</td>
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<tr>
<td>CAB-C15-EUR</td>
<td>Power Cord, Europe, C15 to CEE 7/7, 8 Feet (2.5m)</td>
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<tr>
<td>CAB-C15-IT</td>
<td>Power Cord, Italy, C15 to CEE 23-16, 8 Feet (2.5m)</td>
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<tr>
<td>CAB-C15-UK</td>
<td>Power Cord, United Kingdom, C15 to BS 1363/A, 8 Feet (2.5m)</td>
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<tr>
<td>CAB-C15-NA</td>
<td>Power Cord, North America, C15 to NEMA 5-15P, 8 Feet (2.5m)</td>
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<tr>
<td>CAB-C15-JPN</td>
<td>Power Cord, JAPAN, C15 to NEMA5-15P, 12A/125V, 1.25mm(^2), 1.8M, PSE</td>
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<tr>
<td>CAB-C15-53R</td>
<td>Power Cord, Israel, C15-532, 10A/250V, 1.00mm(^2), 2.5M</td>
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<tr>
<td>CAB-C15-CHN</td>
<td>Power Cord, China, C15-GB2099, 10A/250V, 1.00mm(^2), 2.5M, CCC</td>
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<tr>
<td>CAB-C15-BRZ</td>
<td>Power Cord, Brazil, C15-NBR14136, 10A/250V, 1.00mm(^2), 2.5M</td>
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<tr>
<td>CAB-C15-SWZ</td>
<td>Power Cord, Swiss, C15-SEV10111, 10A/250V, 1.00mm(^2), 2.5M</td>
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<tr>
<td>CAB-C15-ARG</td>
<td>Power Cord, Argentina, C15-IRAM2073, 10A/250V, 1.00mm(^2), 2.5M</td>
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</tbody>
</table>
Warranty
The Arista CCS-720 switches come with a one-year limited hardware warranty, which covers parts, repair, or replacement with a 10 business day turnaround after the unit is received.

Service and Support
Support services including next business day and 4-hour advance hardware replacement are available. For service depot locations, please see: http://www.arista.com/en/service

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