Overview

The Arista 7280R3A Modular Series are purpose built 100G and 400G systems built for the highest performance environments, and to meet the needs of the largest scale data centers and service providers. They deliver scalable L2 and L3 resources and high density with advanced features for network monitoring, precision timing and network virtualization to deliver scalable and deterministic network performance while simplifying designs and reducing Opex.

The modular 7280R3A system provides 14.4 Tbps of packet processing in an extremely compact and power efficient 4RU form factor providing flexibility to deploy a range of interface types. Line rate performance with up to 144 ports of 100G or 36 ports of 400G is combined with rich functionality for a wide range of open networking solutions including large scale layer 2 and layer 3 cloud designs, overlay networks, virtualized or traditional enterprise data center networks. Deep packet buffers and large routing tables allow for internet peering and secure data center interconnect applications and provide complete deployment flexibility.

All elements of the 7280R3A modular are field replaceable, and optimized for simple maintenance, a broad range of network interfaces with a choice of industry standard interfaces allowing for easy transitions to the latest 100G/400G networks. Combined with Arista EOS the 7280R3A series deliver advanced features for high performance large scale layer 2 and layer 3 cloud designs, enterprise data centers and service provider networks.

Product Highlights

Performance
- 7280R3A: 144 x 100G or 36 x 400G
- High density 100G and 400G
- Flexible 10G, 25G, 100G, 200G and 400G support
- Up to 14.4 Tbps system capacity
- Up to 5.4 billion packets per second
- QSFP, OSFP and QSFP-DD: for 10-400G
- 400G ZR and ZR+ Support
- MACsec, IPsec and VXLANsec encryption

Cloud Grade Routing
- Secure Internet Peering
- Carrier Edge VPN Services
- Next Generation EVPN Services for 5G/MEC, CIN, & Metro
- Carrier Core transport (LDP, RSVP-TE, SR-TE) and HA with FRR and Ti-LFA
- Next Generation timing (IEEE 1588)
- Open programmable APIs (JSON-RPC, NETCONF) for provisioning, telemetry, path selection/topology discovery

Data Center Optimized Design
- 16 GB Ultra-deep packet buffer
- Virtual Output Queues per port to eliminate head of line blocking
- Over 93% efficient power supplies
- Redundant & hot-swap power and fans

Virtualization and Provisioning
- CloudVision
- EVPN-VXLAN for next generation DC
- LANZ for microburst detection
- Zero Touch Provisioning (ZTP)
- Accelerated sFlow (RFC3176)

Cloud Networking Ready
- Up to 384K MAC Addresses
- Over 5M IPv4 Routes with 7280R3AK
- Algorithmic ACLs for 400K+ rules

Resilient Control Plane
- High Performance eight-core x86 CPU
- 64GB DRAM and 240GB SSD

Arista Extensible Operating System
- Single 64-bit binary image
- Fine-grained truly modular network OS
- Stateful Fault Containment & Repair
- Full access to Linux shell and tools
- Extensible platform - bash, python, C++

Arista EOS

The Arista 7280R3A series run 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.

Arista’s 64-bit EOS is purpose built for high performance, large scale workloads and embeds advanced monitoring, telemetry and automation capabilities. With a powerful x86 CPU subsystem and full access to Linux, a wealth of standard tools can also be run natively on the switch for simple integration into automation workflows.
Model Overview

The modular Arista 7280R3A is a high performance system that delivers 14.4Tbps of system forwarding and up to 5.4 Bpps with two high capacity, deep buffer, packet processors in a configurable system. Nine interface module slots enable flexible configurations of up to 36 ports of 400G, 144 ports of 100G, or up to 144 ports of 25G in a compact 4RU system.

Designed with ease of maintenance operations and flexibility in mind, the 7280R3A modular platform can be deployed as a common building block for multiple network roles, with the ability to deploy the right interface mix in each deployment. The system also shares its power supplies and high performance IO modules with the Arista 7358X4 for simple migration, reconfiguration and sparing.

The 7280R3A modular provides a choice of three levels of scale and functionality. The Standard (R3A), Encryption (R3AM) and Large Scale (R3AK) Switch Cards each deliver high performance with a comprehensive feature set for enterprise and service providers. Suited for both leaf or spine deployment in modern large scale networks, addressing the challenges of increasing network capacity and efficiency through lower power, enhanced automation and advances in scalability.

The modular 7280R3A is designed around the 7289R3A switch card (7289R3A-SC), that is fully connected to 9 I/O module slots delivering 3.2Tbps of system capacity to each slot with 16GB deep packet buffers for superior burst absorption. The supervisor module runs Arista Extensible Operating System (EOS) on an eight core CPU with 64GB of memory with the scalability to support demanding control plane workloads. The removable interface modules provide for mix and match of interface types and density including 25G, 100G, 200G and 400G with each module supporting a range of interface speeds using industry standard optics and cables. Each IO module connects directly to the switch card without adding any oversubscription. All components of the system including the switch card are removable for ease of maintenance and simplifying upgrades.

The system supports up to 4 high efficiency hot-swappable AC or DC power supplies, providing sufficient power for both current and future needs, with both grid and power supply redundancy to eliminate downtime when replacing power supplies. High performance fan modules deliver resilient data center optimized system cooling from front to rear.
Software Defined Cloud Networks

Arista Software Defined Cloud Networking (SDCN), combines the principles that have made cloud computing the unstoppable force that it is: automation, self service provisioning, and linear scaling of both performance and economics coupled with the trend in Software Defined Networking that delivers: network virtualization, custom programmability, simplified architectures, and lower capital expenditure. This combination creates a best-in-class software foundation for maximizing the value of the network to both the enterprise and service provider data center. A new architecture for the most mission-critical location within the IT infrastructure that simplifies management and provisioning, speeds up service delivery, lowers costs and creates opportunities for competitive differentiation, while putting control and visibility back in the hands of the network and systems administrators.

The Four Pillars of Arista’s Software Defined Cloud Networking:

Universal Cloud Network
- Scalable standards-based MLAG at Layer 2, ECMP for Layer 3 and EVPN for network virtualization flexibility
- Non blocking leaf-spine architecture for 10K-500K hosts

Cloud Control
- Standards based EOS with AEM, ZTP/ZTR, LANZ and DANZ
- Automated Monitoring for visibility and telemetry

Network Wide Virtualization
- Multi-vendor API Support with eAPI
- Support for VMWare and NSX with VXLAN and VMTracer
- Support for Openstack OVSDB

Network Applications and Automated Management
- Single point of network-wide state with Arista CloudVision
- Networked applications for workload mobility, smart systems rollback and upgrades and workflow telemetry
- Open Partner integration

Scaling High Performance Data Centers

The Arista 7280R3A Series deliver non-blocking switching capacity that enables dramatically faster and simpler network designs for data centers and lowers both capital and operational expenses. Arista’s wide range of systems, with a single consistent EOS, allows for flexible, right-sized product choice for all tiers of the network with a strong focus on open standards and interoperability.

The 7280R3A family provides comprehensive support for all common data center architectures, including layer 2 MLAG, layer 3 ECMP and EVPN-VXLAN overlay networking. Leaf-spine topologies provide the most efficient foundation for modern high performance applications, scalable to hundreds of thousands of hosts, while providing predictable, non-blocking, low latency performance. Arista’s Multi-Chassis Link Aggregation (MLAG) technology supports active/active L2 network topologies, while layer 3 Equal Cost Multi-Path (ECMP) designs enable construction of very high radix topologies for large scale deployment. Both designs support EVPN-VXLAN overlay networks for additional segmentation and can integrate with standards-based overlay controller solutions.

The flexibility of the L2 and L3 multi-path design options combined with support for open standards provides maximum flexibility, scalability and network wide virtualization that scales to hundreds of thousands of hosts in a single two-tier design. The Arista 7280R3A Series FlexRoute engine provides Internet scale routing to support deployment as an Internet border/peering router, enterprise CDN backbone or data center interconnect (DCI). Arista FlexRoute along with EOS NetDB enables innovation not natively available in merchant chipsets. Arista EOS provides operational savings through visibility, automation and improved network operations.

Cloud Grade Routing

The 7280R3A series are key components of Arista’s portfolio of Cloud Grade Routing platforms that encompasses a wide choice of fixed and modular systems. Combining Arista EOS’s proven and feature rich Service Provider functionality, telemetry and open programmability with industry leading scale, density and power efficiency, the R3 series systems are designed for versatile deployment in a wide variety of open networking environments.

Next generation multi-service environments require flexibility, security and open programmability to leverage the power efficiency and proven scale of cloud networks. The R3 Series routing solutions include large scale layer 2, layer 3 and EVPN based telco and cloud data center designs, low latency MEC overlay fabrics, data center interconnect (DCI) with long haul optics, provider edge networks with scaleable L2 and L3 VPN services, high density 100G/400G traffic engineered MPLS and SR-TE cores, 5G infrastructure and metro-aggregation for the backhaul of E-LINE services.
7280R3A Deterministic Network Performance

The Arista 7280R3A Series uses a deep buffer virtual output queue (VOQ) architecture that eliminates head-of-line (HOL) blocking and virtually eliminates packet drops even in the most congested network scenarios. An advanced traffic scheduler fairly allocates bandwidth between all virtual output queues while accurately following queue disciplines including weighted fair queueing, fixed priority, or hybrid schemes. As a result, the Arista 7280R3A can handle the most demanding data center requirements with ease, including mixed traffic loads of real-time, multicast, and storage traffic while still delivering low latency.

Routing Table Scale and FlexRoute™

Network scalability is directly impacted by the size of a system's forwarding tables. In many systems a 'one size fits all' approach is adopted using discrete fixed size tables for each of the common types of forwarding entry. The Arista 7280R3A Series leverage a database for forwarding resources which can be allocated for MAC, Routing, Host and ARP tables with a choice of forwarding profiles that optimizes these tables.

Arista’s innovative FlexRoute Engine, with its patented algorithmic approach to building layer 3 forwarding tables on Arista R-Series, provides support for the full internet routing table in hardware. Scaling to more than 5 million routes in 7280R3AK, the R series Universal Spine and Leaf platforms have sufficient headroom for future growth in both IPv4 and IPv6. The flexibility coupled with the range of system forwarding profiles ensures optimal resource allocation for a wide range of network topologies and use cases including Internet Peering, virtualization, Carrier Edge and Security as well as datacenter spine and leaf.

10-400G Wire-speed Encryption with TunnelSec

7280R3AM and 7280R3AK series platforms support Arista's TunnelSec technology, enabling line-rate, industry standard, authenticated strong encryption with using the AES-256-GCM block cipher. TunnelSec devices offer IEEE 802.1AE MAC Security (MACsec), IPsec (RFC 4303) and VXLANSec for flexible encryption of layer 2, layer 3 or overlay networks. While MACsec operates at the link layer, offering point to point encryption, IPsec and VXLANsec enable the construction of encrypted IP tunnels that traverse multiple unencrypted hops between router or VTEP endpoints enabling line-rate strong encryption across third party infrastructure for WAN or DCI deployments.

The flexibility to offer multiple types of encryption enables a broad range of deployments and removes the need for additional encryption devices while providing orders of magnitude improvements in latency and throughput when compared to traditional appliance based implementations. The 7280R3AM and 7280R3AK series support TunnelSec on all interface speeds, from 10G to 400G without a performance penalty. Encryption services are an EOS licensed feature and requires a license file to enable the encryption feature. License information is included in the ordering information section of this document.

Dense 400G DWDM

Arista’s R3A platforms are optimized to support high power 400ZR OSFP and QSFP-DD optical modules. 400ZR modules are software tunable, DWDM, coherent optical modules, with a reach of up to 120km. When combined with Arista’s ZR Line System, up to 8x 400ZR modules can be multiplexed to transport 3.2 Tbps over a single fiber pair. Arista’s ZR Line System consists of the AMP-ZR, an optical amplifier packaged into a single transceiver module, and the CAB-LC8-CS, a simple fiber splitter/combiner that multiplexes up to 8x 400ZR modules into a fiber pair. Selected 7280R3A platforms include dedicated ports that can house the amplifier without using data plane ports. The combination of 7280R3A, 400G-ZR and the ZR-LS represent a revolutionary plug-and-play approach, completely eliminating external transponders and line systems while reducing cost and complexity - allowing DCI links to be turned up as quickly and easily as inside-the-datacenter links.

Algorithmic ACLs

Algorithmic ACLs combine both software and hardware to enable more flexible and scalable solutions for access control, policy based forwarding and network telemetry. Combining general purpose memory with advanced software algorithms delivers higher scale, performance and efficiency with lower power and is more cost effective than traditional solutions. Algorithmic ACLs leverage efficient packet matching algorithms that in turn enables flow matching for access control, policy and visibility. The net benefits are a high performance policy engine with both increased functionality and scale in a cost and power efficient solution. Algorithmic ACLs are available on the 7280R3AK Series of products.

- Enables IPv4 and IPv6 access control at the same scale
- L4 rule ranges are programmed efficiently without expansion or reduced capacity
- Multiple actions can be performed on a single packet or flow
- User defined filters allow flexible packet classification based on offsets for custom actions
- Supports rich policy with consistent semantics that would exhaust classical resources
Enhanced Features for High Performance Cloud Networks

The Arista 7280R3A Series delivers a suite of advanced traffic control and monitoring features to improve the agility of modern high performance environments, with solutions for automation, data monitoring, precise timing and next-generation virtualization.

Automating the data center enables customers to dynamically provision computing resources in the most efficient manner while also meeting business needs by maintaining service level agreements (SLAs). Arista EOS automates complex IT workflows and simplifies network operations while reducing or even eliminating downtime. Arista EOS rich automation capabilities not only reduce the human error element in network operations but also enable IT operators to make the network work the way they want.

Arista offers solutions for a variety of approaches to cloud-like network automation. Addressing the needs of the largest public cloud environments as well as applying those lessons learned in the turnkey CloudVision automation offering.

CloudVision

CloudVision is a network-wide approach for workload orchestration and workflow automation as a turnkey solution for Cloud Networking. CloudVision extends the EOS publish subscribe architectural approach across the network for state, topology, monitoring and visibility. This enables enterprises to move to cloud-class automation without needing any significant internal development.

Precise Data Analysis

Arista Latency Analyzer (LANZ) and Precision Data Analyzer (DANZ) are integrated features of EOS. DANZ provides a solution to monitoring and visibility challenges at 100Gbps and 400Gbps giving IT operations the ability to proactively deliver feedback on congestion events, filter, replicate, aggregate and capture traffic without affecting production performance. LANZ provides precise real-time monitoring of micro-burst and congestion events before they impact applications, with the ability to identify the sources and capture affected traffic for analysis.

Precision Timing (IEEE 1588)

Arista’s hardware derived Precision Time Protocol solution provides a robust mechanism for accurate in-band time distribution in high performance environments, offering both Boundary and Transparent clock modes. The system clock can be synchronized using IEEE 1588 PTP.

Virtualization

The foundation for Arista’s Network Virtualization solutions is VXLAN, an open IETF specification designed to standardize an overlay encapsulation protocol. Arista solutions range from OVSDB and Openstack integration to BGP EVPN in conjunction with EOS CloudVision®, a platform for network-wide workload orchestration and workflow automation.

The 7280R3A builds on the deep buffer wire-speed gateway with EVPN/VXLAN for layer-2 and layer-3 stretch within data center as well as DCI use cases. The 7280R3A is the perfect solution for transit gateway between EVPN domains connected over MPLS.

Inband Network Telemetry

Inband network telemetry, or INT, is a standards approach to providing deep visibility into traffic in real-time, with no impact on switch performance. INT provides per-flow monitoring of traffic drops, latency, congestion and the network path. INT information can be exported in IPFIX or sFlow formats to a management system or collector such as Arista CloudVision, for predictive analytics and deep forensics to measure latency per device and across the network, trace packets and reconstruct path topology as well as detecting hot-spots. Inband Network Telemetry is available on the 7280R3A, 7280R3AM and 7280R3AK Series of products, with the ability to originate, pass and terminate, along with mirroring to external collectors.

7280R3A Accelerated sFlow

sFlow is a powerful tool used commonly by network operators for advanced network telemetry, capacity planning, security analysis and quality of experience monitoring. Traditional sFlow utilizes a system CPU for processing samples of hundreds of thousands of flows. In modern high performance systems guaranteed high rate sampling requires the capability to both sample and process packet rates of billions of packets per second. With the 7280R3A Series Accelerated sFlow feature the sampling and processing of flow samples into sFlow datagrams is handled via integrated sFlow engines capable of supporting 1:500 sampling rates on full wire speed systems or higher rates with selective sampling based on triggers and filters. All sFlow v5 information is included in the sFlow records ensuring consistent integration with existing standard sFlow collection and analysis tools and no loss of information.
Maximum Network Design Flexibility

- Scalable designs with up to a 512-way ECMP provides flexibility and balances traffic evenly across the largest leaf-spine designs
- MLAG designs are effective at almost any layer of the network and maximize cross-sectional bandwidth with fast failover times measured in 100's of milliseconds for link failures.
- VXLAN gateway, bridging and routing with VMTracer features to enable next generation data center designs
- Scalable routing tables to support internet route peering
- Wide choice of dense 25G, 100G and 400G interfaces with broad support for flexible 10G, 25G, 50G or 200G modes.
- Support for standards based IEEE 25GbE with mix and match support for simple and cost effective migration
- Virtual output queue (VOQ) architecture and deep packet buffering to eliminate head of line blocking with low latency
- ACL scalability with up to 100K entries per forwarding engine allows for rich policy control
- Flexible allocation of L2 and L3 forwarding table resources for more design choice
- PTP, Accelerated sFlow, DANZ and multi-port mirroring tools provide network wide visibility and monitoring to detect traffic bursts, monitor latency and congestion and allow capacity planning to improve application performance and availability

7280R3A High Availability

The Arista 7280R3A switches were designed for continuous operations with system wide monitoring of both hardware and software components, simple serviceability and provisioning to prevent single points of failure. Key high availability features include:
- N+1 hot-swappable power supplies and hot-swap fans provide dynamic temperature control combined with N+1 redundancy
- Color coded PSU's and fans that deliver platinum level power efficiency
- Live software patching
- Self healing software with Stateful Fault Repair (SFR)
- Smart System Upgrade (SSU) and Accelerated Software Update (ASU)

7280R3A System Scalability

<table>
<thead>
<tr>
<th>Switch Model</th>
<th>7280R3A Modular Series</th>
<th>7280R3AK Modular Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profile</td>
<td>L3</td>
<td>Balanced</td>
</tr>
<tr>
<td>ARP Entries</td>
<td>88k</td>
<td>80k</td>
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<tr>
<td>MAC Addresses</td>
<td>224k</td>
<td>224k</td>
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<tr>
<td>IPv4 Unicast Routes</td>
<td>1450k</td>
<td>800k</td>
</tr>
<tr>
<td>Additional IPv4 Unicast Routes with FlexRoute</td>
<td>+ 1792k</td>
<td>+ 1792k</td>
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<tr>
<td>IPv6 Unicast Routes</td>
<td>433-483k</td>
<td>250-267k</td>
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<td>Multicast Routes</td>
<td>128k</td>
<td>128k</td>
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<tr>
<td>TCAM ACL Entries (Per chip)</td>
<td>24k</td>
<td>24k</td>
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<tr>
<td>Traffic Policy ACL IPv4 Prefixes</td>
<td>30k</td>
<td>30k</td>
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<tr>
<td>Traffic Policy ACL IPv6 Prefixes</td>
<td>10k</td>
<td>10k</td>
</tr>
</tbody>
</table>

Maximum values dependent on shared resources in some cases
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
- 256 Ports / Channel
- 1024 groups per system (subject to system density)
- MLAG (Multi-Chassis Link Aggregation)
  - Uses IEEE 802.3ad LACP
  - 512 ports per MLAG
- 802.1Q VLANs/Trunking
- 512 ports per MLAG
- 802.3x Flow Control *
- Jumbo Frames (9216 Bytes)
- IGMP v1/v2/v3 snooping
- Storm Control

Layer 3 Features
- Static Routes
- Routing Protocols: OSPF, OSPFv3, BGP, MP-BGP, IS-IS, and RIPv2
- BGP FlowSpec, BMP, BGP-RPKI, PIC
- S12-way Equal Cost Multipath Routing (ECMP)
- VRF, Inter-VRF Route Leaking
- Bi-Directional Forwarding Detection (BFD)
- Unicast Reverse Path Forwarding (uRPF)
- VXLAN Bridging and Routing
- VRRP
- Virtual ARP (VARP)
- Policy Based Routing (PBR)
- Route Maps
- RCF

Multicast
- IGMP v2/v3
- MLD v2
- Protocol Independent Multicast (PIM-SM / PIM-SSM)
- PIM-BiDir *
- Anycast RP (RFC 4610)
- Multicast Source Discovery Protocol (MSDP)

Advanced Monitoring and Provisioning
- Latency Analyzer and Microburst Detection (LANZ)
  - Configurable Congestion Notification (CLI, Syslog)
  - Streaming Events (GPB Encoded)
- Zero Touch Provisioning (ZTP)
- Advanced Mirroring
  - Port Mirroring (14 sessions)
  - Enhanced Remote Port Mirroring
  - SPAN/TAP M:N Aggregation
  - L2/3/4 Filtering
- Post-card Telemetry
- Advanced Event Management suite (AEM)
  - CLI Scheduler
  - Event Manager
  - Event Monitor
  - Linux tools

MPLS Support
- Integrated packet capture/analysis with TCPDump
- Restore and Configure from USB
- RFC 3176 sFlow

Security Features
- Control Plane Protection (CPP)
- Ingress / Egress ACLs using L2, L3, L4 fields
- Ingress / Egress ACL Logging and Counters
- MAC ACLs
- ACL Deny Logging
- ACL Counters
- Atomic ACL Hitless restart
- DHCP Relay / Snooping
- MACsec (802.1AE)
- IPsec UDP-ESP (RFC 4303, RFC 3948)
- TACACS+
- RADIUS
- ARP trapping and rate limiting

Quality of Service (QoS) Features
- Up to 8 queues per port
- Strict priority queueing
- 802.1p based classification
- DSCP based classification and remarking
- Egress shaping / Weighted round robin (WRR)
- WFQ, CIR*, ETS*, Fixed Priority
- Policing / Shaping, H-QoS
- Explicit Congestion Notification (ECN) marking
- 802.1Qbb Per-Priority Flow Control (PFC)
- 802.1Qaz Enhanced Transmission Selection (ETS) *
- Data Center Bridging Extensions (DCBX) *

Network Management
- CloudVision
- Configuration rollback and commit
- 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

Advanced Event Management suite (AEM)
- CLI Scheduler
- Event Manager
- Event Monitor
- Linux tools

* Not currently supported in EOS
Precision Timing
- G.8275.1, G.8275.2

Extensibility
- Linux Tools
  - Bash shell access and scripting
  - RPM support
  - Custom kernel modules
- Software Defined Networking (SDN)
  - eAPI
  - OpenStack Neutron Support
- Programmatic access to system state
  - Python
  - Chef
  - Puppet
  - C++
  - eAPI
  - GO
  - OpenConfig
  - OpenStack Neutron Plug-in support
- Native KVM/QEMU support

System Scalability
- 9216 Byte Jumbo Frame Support
- 8 Priority Queues per Port
- Large Scale Link Aggregation Groups (LAG)
  - 1024 x 16 Ports per LAG
  - 64 x 256 Ports per LAG
- Virtual Output Queueing
- Distributed Scheduler

Standards 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
- 802.3x Flow Control
- 802.3ab 1000BASE-T
- 802.3z Gigabit Ethernet
- 802.3ae 10 Gigabit Ethernet
- 802.3by 25 Gigabit Ethernet
- 802.3ba 40 Gigabit Ethernet
- 802.3ba 100 Gigabit Ethernet
- 802.3bs 400 and 200 Gigabit Ethernet
- 802.3cm 400 Gigabit over multimode fiber
- RFC 2460 Internet Protocol, Version 6 (IPv6)
- RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)
- RFC 2462 IPv6 Stateless Address Autoconfiguration
- RFC 2463 Internet Control Message Protocol (ICMPv6)
- IEEE 1588-2008 Precision Time Protocol

SNMP MIBs
- 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
- IPMROUTE-STD-MIB
- SNMP Authentication Failure trap
- ENTITY-SENSOR-MIB support for DOM (Digital Optical Monitoring)
- User configurable custom OIDs

See EOS release notes for latest supported MIBs

* Not currently supported in EOS
<table>
<thead>
<tr>
<th><strong>Chassis</strong></th>
<th><strong>DCS-7289-CH</strong></th>
<th><strong>Supervisor Module</strong></th>
<th><strong>DCS-7289-SUP</strong></th>
<th><strong>DCS-7289-SUP-S</strong></th>
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<tbody>
<tr>
<td>Supervisor slots</td>
<td>1</td>
<td>CPU</td>
<td>Eight-Core x86</td>
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<tr>
<td>Linecard Slots</td>
<td>9</td>
<td>System Memory</td>
<td>64 Gigabytes</td>
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<tr>
<td>Power Supply Slots</td>
<td>4 (N+N Redundant)</td>
<td>10/100/1000 Mgmt Ports</td>
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<tr>
<td>Fan Modules</td>
<td>5 (N+1 Redundant)</td>
<td>1G SFP Mgmt Port (SX, LX)</td>
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<tr>
<td>Size (HxWxD)</td>
<td>7&quot; x 17.4&quot; x 27.1&quot; (17.9 x 44.2 x 68.83 cm)</td>
<td>RS-232 Serial Ports</td>
<td>1 (RJ-45)</td>
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<tr>
<td>Rack Space</td>
<td>4 RU</td>
<td>USB Ports</td>
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<tr>
<td>Weight (Chassis only)</td>
<td>30 lbs (13.6 kg)</td>
<td>SSD Storage</td>
<td>240 GB</td>
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<td>Weight (Fully configured system)</td>
<td>105 lbs (47.62 kg)</td>
<td>Typical/Max Power Draw</td>
<td>35 W / 55 W</td>
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<td>Typical Power Consumption</td>
<td>1244 W 2/3</td>
<td>Size (HxWxD)</td>
<td>4.0&quot; x 1.0&quot; x 17.0&quot; (10.2 x 2.43 x 43.2 cm)</td>
<td>2.5 lbs (1.14 kg)</td>
</tr>
<tr>
<td>Maximum Power Consumption</td>
<td>1927 W 4</td>
<td>Weight</td>
<td>2.5 lbs (1.14 kg)</td>
<td>TBD</td>
</tr>
<tr>
<td>Power Supplies</td>
<td>PWR-1900 AC or DC</td>
<td>Minimum EOS</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>EOS Feature Licenses</td>
<td>LIC-FIX-5</td>
<td>Minimum EOS</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>Minimum EOS</td>
<td>TBD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Interface Modules</strong></th>
<th><strong>DCS-7368-16S</strong></th>
<th><strong>DCS-7358-16C</strong></th>
<th><strong>DCS-7368-4D</strong></th>
<th><strong>DCS-7368-4P</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ports</td>
<td>16 x SFP28</td>
<td>16 x QSFP28</td>
<td>4 x QSFP-DD</td>
<td>4 x OSFP</td>
</tr>
<tr>
<td>Max 400GbE Ports</td>
<td>—</td>
<td>—</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Max 200GbE Ports</td>
<td>—</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Max 100GbE Ports</td>
<td>—</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Max 25GbE Ports 1</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Max 10GbE Ports 1</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Typical/Max Power Draw</td>
<td>36 W 1/ 88 W 4</td>
<td>Size (HxWxD)</td>
<td>6.7&quot;x 1.7&quot; x 9.5&quot; (17 x 4.4 x 24.2 cm)</td>
<td>2.56 lbs (1.16 kg)</td>
</tr>
<tr>
<td></td>
<td>83 W 1/ 140 W 4</td>
<td>Weight</td>
<td>3.1 lbs (1.41 kg)</td>
<td>3.1 lbs (1.41 kg)</td>
</tr>
<tr>
<td></td>
<td>72 W 1/ 140 W 4</td>
<td></td>
<td>2.7 lbs (1.23 kg)</td>
<td>2.7 lbs (1.23 kg)</td>
</tr>
<tr>
<td></td>
<td>72 W 1/ 140 W 4</td>
<td>Chassis Support</td>
<td>DCS-7289-CH</td>
<td></td>
</tr>
<tr>
<td>Airflow Option</td>
<td>Front to Rear Only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum EOS</td>
<td>TBD</td>
<td></td>
<td>TBD</td>
<td>TBD</td>
</tr>
</tbody>
</table>

1. Maximum number of breakouts depends on system-wide limits and EOS support. It may not be possible to achieve full breakout on all line card ports simultaneously.
2. System configuration: 1 x Sup, 1 x Switch Card, 8 x 16C line cards, 5 x fans, 2 x power supplies
3. Typical power measured at 25C ambient with 50% load (Excluding optics and cables)
4. Maximum power measured with 2.5W SFP+ / 4.5W QSFP100 / 20W OSFP or QSFP-DD on all ports, adjust as appropriate for lower power optics
## Standards Compliance

### EMC
- 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)
- C-Tick (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

## Environmental Characteristics

### Operating Temperature
- 0 to 40°C (32 to 104°F)

### Storage Temperature
- -40 to 70°C (-40 to 158°F)

### Relative Humidity
- 5 to 95%

### Operating Altitude
- 0 to 10,000 ft (0-3,000m)

## Power Supply Specifications

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>PWR-1900AC</th>
<th>PWR-1900-DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Power</td>
<td>2000 W</td>
<td>1900 W</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>200-240 V AC</td>
<td>40-72 V DC</td>
</tr>
<tr>
<td>Typical Input Current</td>
<td>11.2 - 9.5 A</td>
<td>44 A Max (-48 V)</td>
</tr>
<tr>
<td>Input Frequency</td>
<td>50/60 Hz</td>
<td>DC</td>
</tr>
<tr>
<td>Input Connector</td>
<td>IEC 60320 C20</td>
<td>AWG #6 Max</td>
</tr>
<tr>
<td>Efficiency (Typical)</td>
<td>93% Platinum</td>
<td>95%</td>
</tr>
</tbody>
</table>

## Switch Card

<table>
<thead>
<tr>
<th>Card Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCS-7289R3A-SC</td>
<td></td>
</tr>
<tr>
<td>DCS-7289R3AM-SC</td>
<td></td>
</tr>
<tr>
<td>DCS-7289R3AK-SC</td>
<td></td>
</tr>
</tbody>
</table>

## Packet Buffer Memory
- 16 GB

## Maximum Throughput
- 14.4 Tbps / 5.4 Bpps

## Latency
- From 3.8 us

## Size (HxWxD)
- 4.8” x 17.0” x 17.8”
  - (12.2 x 43.2 x 45.2 cm)

## Weight
- 36.0 lbs (16.3 kg)

## Typical/Max Power Draw
- 650 W / 950 W

## Chassis Support
- DCS-7289-CH

## Minimum EOS
- TBD

## Switch Card

### DC Switch Cards
- DCS-7289R3A-SC
- DCS-7289R3AM-SC
- DCS-7289R3AK-SC

### Packet Buffer Memory
- 16 GB

### Maximum Throughput
- 14.4 Tbps / 5.4 Bpps

### Latency
- From 3.8 us

### Size (HxWxD)
- 4.8” x 17.0” x 17.8”
  - (12.2 x 43.2 x 45.2 cm)

### Weight
- 36.0 lbs (16.3 kg)

### Typical/Max Power Draw
- 650 W / 950 W

### Chassis Support
- DCS-7289-CH

### Minimum EOS
- TBD
### Supported Optics and Cables ¹

<table>
<thead>
<tr>
<th>Interface Type</th>
<th>400G OSFP ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>400GBASE-CR8</td>
<td>OSFP to OSFP: 1m-3m lengths</td>
</tr>
<tr>
<td>400GBASE-AOC</td>
<td>OSFP to OSFP: 1m-30m lengths</td>
</tr>
<tr>
<td>400GBASE-SR8</td>
<td>100m OM3/4 Parallel MMF</td>
</tr>
<tr>
<td>400GBASE-DR4</td>
<td>500m Parallel SM</td>
</tr>
<tr>
<td>400GBASE-XDR4</td>
<td>2km Parallel SM</td>
</tr>
<tr>
<td>400GBASE-FR4</td>
<td>2km Duplex SM</td>
</tr>
<tr>
<td>400GBASE-2FR4</td>
<td>2km 2 x Duplex SM</td>
</tr>
<tr>
<td>400GBASE-LR4</td>
<td>10km Duplex SM</td>
</tr>
<tr>
<td>400GBASE-PLR4</td>
<td>10km Parallel SM</td>
</tr>
<tr>
<td>400GBASE-ZR</td>
<td>120km (with optical amplification)</td>
</tr>
<tr>
<td>200GBASE-CR4</td>
<td>OSFP to 2xQSFP: 1m to 3m lengths</td>
</tr>
<tr>
<td>200GBASE-SR4</td>
<td>100m (using OSFP-400G-SR8)</td>
</tr>
<tr>
<td>200GBASE-FR4</td>
<td>2km (using OSFP-400G-2FR4)</td>
</tr>
<tr>
<td>100GBASE-CR2</td>
<td>OSFP to 4xQSFP: 1m to 3m lengths</td>
</tr>
<tr>
<td>100GBASE-CR4</td>
<td>OSFP to 2xQSFP: 1m to 3m lengths</td>
</tr>
<tr>
<td>50GBASE-CR</td>
<td>OSFP to 8xSFP: 1 to 3m lengths</td>
</tr>
<tr>
<td>50GBASE-CR2</td>
<td>OSFP to 4xQSFP: 1m to 3m lengths</td>
</tr>
<tr>
<td>25GBASE-CR</td>
<td>OSFP to 8xSFP: 1m to 3m lengths</td>
</tr>
</tbody>
</table>

### Supported Optics and Cables ¹

<table>
<thead>
<tr>
<th>Interface Type</th>
<th>400G QSFP-DD ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>400GBASE-CR8</td>
<td>QSFP-DD to QSFP-DD: 1m-2.5m lengths</td>
</tr>
<tr>
<td>400GBASE-AOC</td>
<td>QSFP-DD to QSFP-DD: 1m-30m lengths</td>
</tr>
<tr>
<td>400GBASE-SR8</td>
<td>100m OM3/4 Parallel MMF</td>
</tr>
<tr>
<td>400GBASE-DR4</td>
<td>500m Parallel SM</td>
</tr>
<tr>
<td>400GBASE-XDR4</td>
<td>2km Parallel SM</td>
</tr>
<tr>
<td>400GBASE-FR4</td>
<td>2km Duplex SM</td>
</tr>
<tr>
<td>400GBASE-2FR4</td>
<td>2km 2 x Duplex SM</td>
</tr>
<tr>
<td>400GBASE-LR4</td>
<td>10km Duplex SM</td>
</tr>
<tr>
<td>400GBASE-PLR4</td>
<td>10km Parallel SM</td>
</tr>
<tr>
<td>400GBASE-ZR</td>
<td>120km (with optical amplification)</td>
</tr>
<tr>
<td>200GBASE-CR4</td>
<td>QSFP-DD to 2xQSFP: 1m to 2.5m lengths</td>
</tr>
<tr>
<td>200GBASE-SR4</td>
<td>100m (QDD-400G-SR8 / QSFP-200G-SR4)</td>
</tr>
<tr>
<td>200GBASE-FR4</td>
<td>2km (using QSFP-200G-FR4)</td>
</tr>
<tr>
<td>100GBASE-CR2</td>
<td>QSFP-DD to 4xQSFP: 1m to 3m lengths</td>
</tr>
<tr>
<td>100GBASE-CR4</td>
<td>QSFP-DD to 2xQSFP: 1m to 3m lengths</td>
</tr>
<tr>
<td>50GBASE-CR</td>
<td>QSFP-DD to 8xSFP: 1m to 3m lengths</td>
</tr>
<tr>
<td>50GBASE-CR2</td>
<td>QSFP-DD to 4xQSFP: 1m to 3m lengths</td>
</tr>
<tr>
<td>25GBASE-CR</td>
<td>QSFP-DD to 8xSFP: 1m to 3m lengths</td>
</tr>
</tbody>
</table>

---

¹ For a complete list of transceivers, please refer to the Transceiver Datasheet and check EOS release notes for support.

² Requires OSFP / QSFP-DD port to be configured for 200G, 8 x 25G NRZ lanes. Allows interop with 100G QSFP and 25G SFP ports.
### Supported Optics and Cables

<table>
<thead>
<tr>
<th>Interface Type</th>
<th>40G QSFP ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>10GBASE-CR</td>
<td>QSFP+ to 4xSFP+: 0.5m-5m lengths</td>
</tr>
<tr>
<td>40GBASE-CR4</td>
<td>QSFP+ to QSFP+: 0.5m-5m lengths</td>
</tr>
<tr>
<td>40GBASE-AOC</td>
<td>3m to 100m lengths</td>
</tr>
<tr>
<td>40GBASE-UNIV</td>
<td>150m OM3 / 150m OM4, 500m SM</td>
</tr>
<tr>
<td>40GBASE-SRBD</td>
<td>100m OM3 /150m OM4 Duplex MMF</td>
</tr>
<tr>
<td>40GBASE-SR4</td>
<td>100m OM3 /150m OM4 Parallel MMF</td>
</tr>
<tr>
<td>40GBASE-XSR4</td>
<td>300m OM3 /400m OM4 Parallel MMF</td>
</tr>
<tr>
<td>40GBASE-PLRL4</td>
<td>1km (1km 4x10G LR/LRL)</td>
</tr>
<tr>
<td>40GBASE-PLR4</td>
<td>10km (10km 4x10G LR/LRL)</td>
</tr>
<tr>
<td>40GBASE-LRL4</td>
<td>1km Duplex SM</td>
</tr>
<tr>
<td>40GBASE-LR4</td>
<td>10km Duplex SM</td>
</tr>
<tr>
<td>40GBASE-ER4</td>
<td>40km Duplex SM</td>
</tr>
</tbody>
</table>

### 40GbE

<table>
<thead>
<tr>
<th>Interface Type</th>
<th>100G QSFP ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>10GBASE-SR4</td>
<td>70m OM3 /100m OM4 Parallel MMF</td>
</tr>
<tr>
<td>10GBASE-XSR4</td>
<td>150m OM3 / 300m OM4 Parallel MMF</td>
</tr>
<tr>
<td>10GBASE-SWDM4</td>
<td>70m OM3 / 100m OM4 Duplex MMF</td>
</tr>
<tr>
<td>10GBASE-SRBD</td>
<td>70m OM3 / 100m OM4 Duplex MMF</td>
</tr>
<tr>
<td>10GBASE-LR</td>
<td>10km Duplex SM</td>
</tr>
<tr>
<td>10GBASE-LR4</td>
<td>10km Duplex SM</td>
</tr>
<tr>
<td>10GBASE-XCWDM4</td>
<td>2km Duplex SM</td>
</tr>
<tr>
<td>10GBASE-CWDM4</td>
<td>10km Duplex SM</td>
</tr>
<tr>
<td>10GBASE-FR</td>
<td>2km Duplex SM</td>
</tr>
<tr>
<td>10GBASE-DR</td>
<td>500m Duplex SM</td>
</tr>
<tr>
<td>10GBASE-PSM4</td>
<td>500m Parallel SM</td>
</tr>
<tr>
<td>10GBASE-AOC</td>
<td>1m to 30m lengths</td>
</tr>
<tr>
<td>10GBASE-ERL4</td>
<td>40km Duplex SM</td>
</tr>
<tr>
<td>10GBASE-CR4</td>
<td>QSFP to QSFP: 1m to 5m lengths</td>
</tr>
<tr>
<td>50GBASE-CR2</td>
<td>QSFP to 2xQSFP: 1m to 5m lengths</td>
</tr>
<tr>
<td>25GBASE-CR</td>
<td>QSFP to SFP25: 1m to 5m lengths</td>
</tr>
</tbody>
</table>

---

1. For a complete list of transceivers, please refer to the Transceiver Datasheet and check EOS release notes for support
2. Requires OSFP / QSFP-DD port to be configured for 200G, 8 x 25G NRZ lanes. Allows interop with 100G QSFP and 25G SFP ports
<table>
<thead>
<tr>
<th>Product Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCS-7289R3A-BND-D-F</td>
<td>Arista 7289R3 System bundle. Includes 7289 chassis, AC PS, Fans, Supervisor and R3A Switch Card (front to rear air)</td>
</tr>
<tr>
<td>DCS-7289R3AM-BND-D-F</td>
<td>Arista 7289R3 System bundle. Includes 7289 chassis, AC PS, Fans, Supervisor and R3AM Switch Card (front to rear air)</td>
</tr>
<tr>
<td>DCS-7289R3AK-BND-D-F</td>
<td>Arista 7289R3 System bundle. Includes 7289 chassis, AC PS, Fans, Supervisor and R3AK Switch Card (front to rear air)</td>
</tr>
<tr>
<td>DCS-7289R3A-BND-D-DC-F</td>
<td>Arista 7289R3 System bundle. Includes 7289 chassis, DC PS, Fans, Supervisor and R3A Switch Card (front to rear air)</td>
</tr>
<tr>
<td>DCS-7289R3AM-BND-D-DC-F</td>
<td>Arista 7289R3 System bundle. Includes 7289 chassis, DC PS, Fans, Supervisor and R3AM Switch Card (front to rear air)</td>
</tr>
<tr>
<td>DCS-7289R3AK-BND-D-DC-F</td>
<td>Arista 7289R3 System bundle. Includes 7289 chassis, DC PS, Fans, Supervisor and R3AK Switch Card (front to rear air)</td>
</tr>
<tr>
<td>DCS-7289R3A-SC</td>
<td>7289R3A Switch Card for 7289 chassis, R3A-SC, includes Fans, Spare</td>
</tr>
<tr>
<td>DCS-7289R3AM-SC</td>
<td>7289R3A Switch Card with Enh MACsec for 7289 chassis, R3AM-SC, includes Fans, Spare</td>
</tr>
<tr>
<td>DCS-7289R3AK-SC</td>
<td>7289R3A Switch Card with Route Scale and Enh MACsec for 7289 chassis, R3AK-SC, includes Fans, Spare</td>
</tr>
<tr>
<td>DCS-7289-CH</td>
<td>Arista 7289 empty chassis, 1 supervisor slot, 9 module slots</td>
</tr>
<tr>
<td>DCS-7289-SUP</td>
<td>Supervisor module for 7289 Series, with SSD, Spare</td>
</tr>
<tr>
<td>DCS-7289-SUP-S</td>
<td>Supervisor-S module for 7289 Series, with SSD, Spare</td>
</tr>
<tr>
<td>DCS-7368-4P</td>
<td>Arista 7368X-4P module for 7358X/7368X/7289R Series, 4 port 400GbE OSFP (Spare)</td>
</tr>
<tr>
<td>DCS-7368-4D</td>
<td>Arista 7368X-4D module for 7358X/7368X/7289R Series, 4 port 400GbE QSFP-DD (Spare)</td>
</tr>
<tr>
<td>DCS-7358-16C</td>
<td>Arista 7358X-16C module for 7358X/7368X/7289R Series, 16 port 100GbE QSFP (Spare)</td>
</tr>
<tr>
<td>DCS-7368-16S</td>
<td>Arista 7368X-16S module for 7358X/7368X/7289R Series, 16 port 25GbE SFP (Spare)</td>
</tr>
<tr>
<td>LIC-FIX-5-E</td>
<td>Enhanced L3 License for Arista Group 5 Fixed switches, (BGP, OSPF, ISIS, PIM, NAT)</td>
</tr>
<tr>
<td>LIC-FIX-5-Z</td>
<td>Monitoring &amp; Automation license for Arista Group 5 Fixed switches (ZTP, LANZ, TapAgg, OpenFlow)</td>
</tr>
<tr>
<td>LIC-FIX-5-V</td>
<td>Virtualization license for Group 5 Arista Fixed switches (VMTracer and VXLAN)</td>
</tr>
<tr>
<td>LIC-FIX-5-V2</td>
<td>EOS Extensions, Security and Partner Integration license for Arista Group 3 Fixed switches</td>
</tr>
<tr>
<td>LIC-FIX-5-FLX-L</td>
<td>FLX-Lite License for Arista Fixed switches Group 5 - Full Routing Up to 256K Routes, EVVPN, VXLAN, SR, base MPLS LSR (no TE or link/node protection)</td>
</tr>
<tr>
<td>LIC-FIX-5-FLX</td>
<td>FLX License for Arista Fixed Group 5 - Full Routing up to 2M Routes, &gt;24K ACL, EVVPN, VXLAN, SR, Adv MPLS-LER/LSR, with TE &amp; link/node protection</td>
</tr>
<tr>
<td>LIC-FIX-5-MACSEC</td>
<td>MACSEC Encryption License for Arista Group 5 Fixed switches, MACSEC capable ports</td>
</tr>
<tr>
<td>LIC-FIX-5-ENC-FLX</td>
<td>Enhanced Security Encryption License for Arista Group 5 Fixed switches, Encryption capable ports, TunnelSec, IPsec and MACsec</td>
</tr>
</tbody>
</table>
Optional Components and Spares

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAN-7002H-F</td>
<td>Spare high speed fan module for Arista 7358X/7368X/7289R3A switches (front to rear airflow)</td>
</tr>
<tr>
<td>PWR-1900AC-F</td>
<td>Spare 1900 Watt AC power supply for Arista 7358X/7368X/7289R3A Switches (front-to-rear airflow)</td>
</tr>
<tr>
<td>PWR-1900-DC-F</td>
<td>Spare 1900W DC Power Supply for 7358X/7368X/7289R3A Switches (front to rear airflow)</td>
</tr>
<tr>
<td>DCS-7368-PCVR</td>
<td>Blank Cover for 7358X/7368X/7289R3A Power Supply Slot</td>
</tr>
<tr>
<td>DCS-7368-LCVR</td>
<td>Blank cover for 7358X/7368X/7289R3A module slot</td>
</tr>
<tr>
<td>KIT-7368</td>
<td>Spare accessory kit for Arista 7358X/7368X/7289R3A switches</td>
</tr>
<tr>
<td>CAB-C19-C20</td>
<td>Power cord C19 to C20 (2m)</td>
</tr>
<tr>
<td>CAB-C19-L6-20</td>
<td>Power cord C19 to L6-20 (2.5m)</td>
</tr>
</tbody>
</table>

Warranty
The Arista 7280R3A Modular switch comes with a one-year limited hardware warranty, which covers parts, repair, or replacement with a 10 business day turn-around 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](http://www.arista.com/en/service)

Headquarters
5453 Great America Parkway  
Santa Clara, California 95054  
408-547-5500

Support
[support@arista.com](mailto:support@arista.com)  
408-547-5502  
866-476-0000

Sales
[sales@arista.com](mailto:sales@arista.com)  
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