

Product Highlights

Performance

- 7358X4: 128 x 100G or 32 x 400G
- High density 100G and 400G
- Flexible 10G, 25G, 100G, 200G and 400G support
- Up to 12.8 Tbps system capacity
- Up to 5.3 billion packets per second
- Wire speed L2 and L3 forwarding
- Latency from 900 ns for 400G

Data Center Optimized Design

- 128 ports of 100G in 4RU
- All active components field removable
- Mix and match IO Modules
- Typical power of under 10W per 100G port
- Over 93% efficient power supplies
- N+N redundant & hot-swappable power
- N+1 redundant & hot-swappable fans
- Front-to-rear and rear-to-front cooling
- Tool less rails for simple installation

Cloud Networking Ready

- VXLAN and EVPN
- 128K MAC entries
- 800K/500K* IPv4/v6 Routes
- 128-way ECMP for scale-out networks
- Up to 320K/80K IPv4/v6 Host Routes
- 132MB integrated intelligent buffer with dynamic buffer allocation

Resilient Control Plane

- High Performance x86 CPU
- 32GB DRAM
- User applications can run in a VM

Advanced Provisioning & Monitoring

- CloudVision
- Zero Touch Provisioning (ZTP)
- LANZ for microburst detection*
- DANZ Advanced Mirroring for visibility
- sFlow
- INT and GREEN-T for In-Band Telemetry*
- Self-configure and recover from USB
- Traffic aware ECMP and UCMP

Arista Extensible Operating System

- Single binary image for all products
- Fine-grained truly modular network OS
- Stateful Fault Containment (SFC)
- Stateful Fault Repair (SFR)
- 64-bit EOS
- Full Access to Linux shell and tools
- Extensible platform - bash, python, C++, GO, OpenConfig

Overview

As enterprises continue to optimize data center facilities for modern cloud-native applications, collaboration tools, containerized services and emerging AI/ML technologies, the requirement for high capacity, low latency networking is driving a flattening of data center architectures and high bandwidth interconnectivity between facilities and the public cloud. In addition to the need for next generation systems that deliver higher scale, optimized for cost and energy efficiency, enterprises require rich functionality and broad compatibility with existing networks and automation and orchestration systems.

The Arista 7358X4 series is built on a single 12.8 Tbps high capacity packet processor in an extremely compact and power efficient 4RU modular form factor that increases the network radix for high density switching, reduces tiers and simplifies networks while providing flexibility to deploy a range of interface types. Line rate performance with up to 128 ports of 100G or 32 ports of 400G combined with broad support for enterprise grade features including EVPN/VXLAN.

400G Ethernet is a key enabler in realizing modern high performance infrastructure, offering the ability to not only carry large volumes of data, but also to significantly increase the radix of 100Gbps networks and to support emerging 50/100/200Gbps server and storage connectivity driven by the adoption of PCIe Gen4. The Arista 7358X4, with the Arista 7050X4 and 7050X3 portfolio of data center switches, delivers a rich choice of port speed and density including 25G, 50G, 100G, 200G and 400G enabling consistent network architectures that scale from small dedicated clusters to very large multi-tier and multi-plane topologies.

All elements of the 7358X4 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 7358X4 series deliver advanced features for high performance enterprise data centers, HPC and machine learning clusters.



Arista 7358X4: 128 ports of 25G or 100G, or 32 ports of 400G

Arista EOS

The Arista 7358X4 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.

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 with the powerful x86 CPU subsystem.

Model Overview

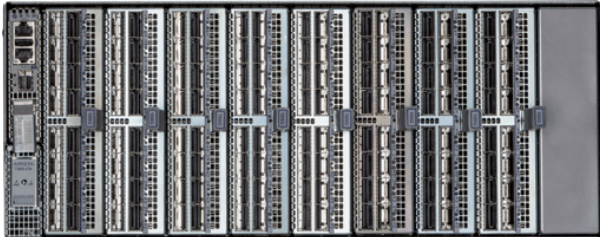
The Arista 7358X4 is a high performance system that enables up to 32 ports of 400G, 128 ports of 100G, or up to 128 ports of 25G in a compact 4RU system with 8 interface module slots. The 7358X4 delivers 12.8 Tbps of system forwarding and up to 5.3 Bpps with a single high capacity packet processor in a configurable system. The system is designed for flexible configurations with a choice of interface module cards, ease of maintenance operations for cloud networks, increased network scale and resilience with advanced traffic management and congestion control. The system shares many components with the 7368X4 for simple migration and sparing, including many of the high performance IO modules.

The 7358X4 delivers high performance, with a complete enterprise grade feature set, 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 7358X4 is designed around the 7358X4 switch card (7358X4-SC), that is fully connected to 8 I/O module slots delivering 3.2 Tbps of system capacity to each slot. The supervisor module runs Arista Extensible Operating System (EOS) on a quad core CPU with 32GB of memory with the performance to run the control plane and management functions of the system. 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 AC or DC power supplies, providing sufficient power for both current and future needs, with both grid and power supply redundancy and are hot-swappable to eliminate downtime when replacing power supplies. High performance fan modules deliver resilient data center optimized system cooling in both forward and reverse airflow directions.

The Arista 7358X4 series switches support port to port latency as low as 900ns in cut-through mode, and a 132 MB packet buffer with a large shared pool allowing for superior burst absorption compared to multi-chip systems or pre-allocated fixed per-port buffering.



Arista 7358X4

*System Front
(128 ports of 100G)*



*System Rear
(Front to Rear Airflow)*



DCS-7368-SUP Supervisor management card - Quad core CPU and 32GB memory for high performance control plane, Ethernet and management ports with optional SSD for storage.



DCS-7368-4P OSFP - 4 ports of 400G with OSFP optics and cables, and the use of existing 100G optics and cables.



DCS-7368-4D QSFP-DD - 4 ports of 400G with QSFP-DD optics and cables and the use of existing 100G optics



DCS-7358-16C QSFP100 - 16 ports of 100G, up to 8 ports of 200G mode (alternate ports) support on all ports.



DCS-7368-16S SFP28 - 16 ports of 25G with support for 25G and 10G on all ports.

High Availability

The Arista 7358X4 are optimized for cloud networking operations and maintenance with system wide monitoring of all hardware and software components, simple serviceability and provisioning for ease of maintenance and system expansion. The 7358X4 supports simple replacement of all components including the supervisor, switch card and interface modules, power supplies and fans. The 7358X Series offers power and cooling high availability and N+1 redundancy. The switch card, power supplies and fans are rear removable ensuring no disruption to either the interface modules or network cabling.

The Arista 7358X4 series switches were designed for high availability from both a software and hardware perspective. Key high availability features include:

- Hot-swap of all interface modules
- Four N+N hot-swappable power supplies
- Five high performance N+1 hot-swap fans
- Color coded PSU's and fans
- Live software patching for zero downtime maintenance
- Self healing software with Stateful Fault Repair (SFR)
- Smart System Upgrade (SSU) to simplify software upgrades *
- Up to 128 ports per link aggregation group
- Multi-chassis LAG for active/active L2 multi-pathing
- 128-way ECMP routing for load balancing and redundancy

Maximum Flexibility for Scale Out Network Designs

Scale out network designs enable solutions to start small and evolve over time. A simple two-way design can grow as far as 128-way without significant changes to the architecture. The Arista 7358X4 provides a consistent architecture with the 7050X4 Series and a choice of either 100G QSFP, 400G OSFP and QSFP-DD interfaces, providing investment protection and future proof migration from 100G to 400G optimized for large scale networks. They include several enhancements for cloud leaf-spine data center designs:

- Wide choice of optics and cables for multi-speed flexibility including 10G, 25G, 40G, 50G, 100G, 200G and 400G
- 128-way ECMP and 64-way MLAG for scalable designs and to balance traffic evenly across large scale multi-tier designs
- Enhanced ECMP Hashing and Load Balancing consider real-time loads and dynamically assign new and existing flows to the best link to improve performance
- Support for standards based IEEE 100GbE for simple and cost effective migration from to 100G and 400G
- Advanced Multipathing improves congestion management by rebalancing flows in large scale cloud environments under load
- Hitless speed changes to eliminate down-time when implementing changes
- LANS, sFlow and multi-port mirroring to detect micro-burst congestion and provide network wide visibility and monitoring
- Flow aware detector to identify large flows and selectively allow marking and queue assignment to optimize traffic forwarding

Enhanced Features for High Performance Networks

The Arista 7358X4 Series delivers a suite of advanced traffic control and monitoring features to improve the agility of modern high performance environments, with solutions for data monitoring, precise timing and 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.

Flexible Forwarding Table

Network scalability is directly impacted by the size of a switches 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 7358X4 leverage flexible forwarding tables for the L2 MAC, L3 Routing, L3 Host and IP Multicast forwarding entries, which can be flexibly allocated per entry type. The ideal size of each partition varies depending on the network deployment scenario. The flexibility of the forwarding table coupled with the range of pre-defined profiles available on the 7358X4 ensures optimal resource allocation for all network topologies and network virtualization technologies.

Dynamic Buffer Allocation

In cut-through mode, the Arista 7358X4 switches forward packets with a consistent low latency of 900 nanoseconds. Upon congestion, the packets are buffered in an intelligent fully shared packet memory that has a total size of 132MB for superior burst absorption. Unlike other architectures that have fixed per-port packet memory, the 7358X4 Series use dynamic thresholds to allocate packet memory based on traffic class, queue depth and quality of service policy ensuring a fair allocation to all ports of both lossy and lossless classes. Buffer utilization, occupancy and thresholds are all visible with Arista LANZ and can be exported to monitoring tools to identify hotspots and measure latency at the device and end to end.

Software Driven Cloud Networking

Arista Software Driven 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.

Advanced Event Management (AEM)

Simplifying the overall operations, AEM provides the tools to customize alerts and actions. AEM is a powerful and flexible set of tools to automate tasks and customize the behavior of EOS and the operation of the overall data center switching infrastructure. AEM allows operators to fully utilize the intelligence within EOS to respond to real-time events, automate routine tasks, and automate actions based on changing network conditions.

Virtualization

Supporting next-generation virtualized data centers requires tight integration with orchestration tools and encapsulation technologies such as VXLAN. The 7358X4 build on the valuable tools already provided by the Arista VM Tracer suite to integrate directly into encapsulated environments. Offering a wire-speed gateway between VXLAN and traditional L2/3 environments, they make integration of non-VXLAN aware devices including servers, firewalls and load-balancers seamless and provide the ability to leverage VXLAN as a standards based L2 extension technology for non-MPLS environments.

Programmable Pipeline

The Arista 7358X4 series support an enhanced forwarding architecture with smarter and flexible packet pipeline which allows the addition of new capabilities to the data plane of the packet processor through software upgrades without changes or replacement of the underlying hardware. This allows for rapid testing and deployment avoiding costly replacements or major upgrades. Together with flexible resource allocation, the programmable pipeline increases the flexibility of the platform allowing for broad use cases and ensures continued investment protection.

Precise Data Analysis*

Arista Latency Analyzer (LANZ) is an integrated feature of EOS. 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. Advanced analytics are provided with features like buffer monitoring with configurable thresholds, in-band path and latency monitoring, event driven trace packets and granular time stamping.

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.

EOS Licensing

Arista 7388X5 Series with EOS and CloudVision, is designed to provide flexibility both in the choice of the appropriate feature functionality and in the software consumption model. The base feature set of Arista EOS comes bundled with the Arista products and systems. A set of feature licenses are available to enable additional functionality in advanced feature sets. The traditional licensing procurement model employs a perpetual term for the right to use the feature, set at a fixed price. For Arista CloudVision the functionality is available as a monthly subscription, for an agreed upon term.

Routing: General Routing functionality (BGP, OSPF, Multicast, etc) is available in the EOS Enhanced (E) license. The EOS Flex-route (FLX) Lite license expands that to include key features like BGP-EVPN for VXLAN.

Automation/Visibility: CloudVision is the most complete offering for advanced automation and visibility. Arista also offers subsets of CloudVision Lite, for entry-level GUI functionality. CloudVision is offered as an on-premises appliance (virtual or physical appliance) or as a SaaS-based software application that is fully managed by Arista. The EOS V2 license includes capability to run custom extensions natively or via containers in EOS. In addition, the V2 license gives customers an option of integrating with Arista's best of breed ecosystem for security, analytics, visibility, and other use-cases.

AI Analyzer *

Traditional software-based traffic counters do not lend themselves to examine AI/ML traffic patterns, which exhibit unique ramp up behavior in very short intervals of time. The AI Analyzer is a hardware capability that enables the collection of ECMP member utilization data, aggregated over extremely short periods of time. This allows the Arista 7358X4 series to effectively analyze the traffic patterns, with a time interval as granular as 100 microseconds. The results of such an analysis can then be applied to fine tune dynamic load balancing workloads uniformly across the ECMP member links, which is a key requirement for AI/ML applications.

Supported Features in EOS

<https://www.arista.com/en/support/product-documentation/supported-features>

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
 - 128 groups per system
- Multi-Chassis Link Aggregation (MLAG)
 - 64 ports per MLAG
- Custom LAG Hashing
- Resilient LAG Hashing
- 802.1AB Link Layer Discovery Protocol
- 802.3x Pause Flow Control Tx
- Jumbo Frames (9216 Bytes)
- IGMP v1/v2/v3 snooping
- Storm Control

Layer 3 Features

- Routing Protocols: OSPF, OSPFv3, BGP, MP-BGP, IS-IS, and RIPv2
- 128-way Equal Cost Multipath Routing (ECMP)
- Resilient ECMP Routes
- VRF
- BFD
- Route Maps
- IGMP v2/v3
- PIM-SM / PIM-SSM
- Anycast RP (RFC 4610)
- VRRP
- Virtual ARP (VARP)
- Policy Based Routing (PBR)*
- uRPF*

Advanced Monitoring and Provisioning

- Zero Touch Provisioning (ZTP)
- Smart System Upgrade*
- AI Analyzer*
- Latency Analyzer and Microburst Detection (LANZ)*
 - Configurable Congestion Notification (CLI, Syslog)
 - Streaming Events (GPB Encoded)
 - Capture/Mirror of congested traffic
- Advanced Monitoring and Aggregation
 - Port Mirroring (8 active sessions)
 - L2/3/4 Filtering on Mirror Sessions
 - Port Channel source and destination
 - Mirror to CPU

- Advanced Event Management suite (AEM)
 - CLI Scheduler
 - Event Manager
 - Event Monitor
 - Linux tools
- Integrated packet capture/analysis with TCPDump
- RFC 3176 sFlow
- Restore & configure from USB
- Blue Beacon LED for system identification
- Software Defined Networking (SDN)
 - Arista DirectFlow
 - eAPI
 - OpenStack Neutron Support
- IEEE 1588 PTP (Transparent Clock and Boundary Clock)*

Virtualization Support

- VXLAN Routing and Bridging
- VM Tracer VMware Integration

Security Features

- IPv4 / IPv6 Ingress & Egress ACLs using L2, L3, L4 fields
- MAC ACLs
- ACL Drop Logging and ACL Counters
- Control Plane Protection (CPP)
- Service ACLs
- DHCP Relay / Snooping
- TACACS+
- RADIUS

Quality of Service (QoS) Features

- Up to 8 unicast + 2 multicast queues per port
- 802.1p based classification
- DSCP based classification and remarking
- Explicit Congestion Notification (ECN)
- QoS interface trust (COS / DSCP)
- Strict priority queueing
- Weighted Round Robin (WRR) Scheduling
- 802.1Qbb Per-Priority Flow Control (PFC)
- 802.1Qaz Data Center Bridging Exchange (DCBX)
- ACL based DSCP Marking
- ACL based Policing
- Per port MMU Configuration
- Traffic Shaping

Network Management

- CloudVision
- 10/100/1000 Management Port
- RS-232 Serial Console Port
- USB Port
- SNMP v1, v2, v3
- Management over IPv6
- Telnet and SSHv2
- Syslog
- AAA
- Industry Standard CLI

Extensibility

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

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
- 802.3ab 1000BASE-T
- 802.3z Gigabit Ethernet
- 802.3ae 10 Gigabit Ethernet
- 802.3by 25 Gigabit Ethernet
- 802.3ba 40 and 100 Gigabit Ethernet
- 802.3bs 400 and 200 Gigabit Ethernet
- 802.3cm 400 Gigabit over multimode fiber
- RFC 2460 Internet Protocol, Version 6 (IPv6) Specification
- RFC 4861 Neighbor Discovery for IP Version 6 (IPv6)
- RFC 4862 IPv6 Stateless Address Autoconfiguration
- RFC 4443 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification

SNMP MIBs

- RFC 3635 EtherLike-MIB
- RFC 3418 SNMPv2-MIB
- RFC 2863 IF-MIB
- RFC 2864 IF-INVERTED-STACK-MIB
- RFC 4292 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 VRRPv2-MIB
 - 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

Table Sizes

STP Instances	64 (MST)/254 (RPVST+)
IGMP Groups	128K max, with 4K unique groups
ACLs	11K
Egress ACLs	2K
ECMP	128-way, 4K groups
Max. IPv4 Host Routes	320K
Max IPv6 Host Routes	80K
Max IPv4 Multicast (S,G)	160K

LPM Table Mode		ALPM	1	2	3	4
Shared	Max. IPv4 LPM Routes	800K	16K	16K	16K	16K
	Max. IPv6 LPM Routes - Unicast (prefix length <= 64)	500K	6K	4K	2K	—
	Max. IPv6 LPM Routes - Unicast (any prefix length)	500K	1K	2K	3K	4K

* Not currently supported in EOS

Chassis	DCS-7368-CH	Supervisor Module	DCS-7368-SUP	DCS-7368-SUP-D
Supervisor slots	1	CPU	Multi-Core x86	
Linecard Slots	8	System Memory	32 Gigabytes	
Power Supply Slots	4 (N+N Redundant)	10/100/1000 Mgmt Ports	1	
Fan Modules	5 (N+1 Redundant)	1G SFP Mgmt Port (SX, LX)	1	
Size (HxWxD) - excluding ejectors and handles	7" x 17.4" x 22" (17.9 x 44.2 x 55.9cm)	RS-232 Serial Ports	1 (RJ-45)	
Rack Space	4RU	USB Ports	1	
Weight (Chassis only)	30 lbs (13.6 kg)	SSD Storage	30GB	256GB
Weight (Fully configured system)	85 lbs (38.6 kg)	Typical/Max Power Draw*	30W / 48W	30W / 48W
Typical Power Consumption	821W 1 / 1547W ¹	Size (HxWxD)	4.0" x 1.0" x 17.0" (10.2 x 2.43 x 43.2cm)	
Power Supplies	PWR-1900AC-F/R PWR-1900-DC-F/R	Weight	2.5 lbs (1.14kg)	2.5 lbs (1.14kg)
Reversible Airflow Option	25G/100G Configuration	Minimum EOS	4.22.0	
Fan Tray	FAN-7002H-F/R			
EOS Feature Licenses	LIC-FIX-3			
Minimum EOS	4.22.0			

Interface Modules	DCS-7368-16S	DCS-7358-16C	DCS-7368-4D	DCS-7368-4P
Ports	16 x SFP28	16 x QSFP28	4 x QSFP-DD	4 x OSFP
Max 400GbE Ports	—	—	4	4
Max 200GbE Ports	—	8	8	8
Max 100GbE Ports	—	16	16	16
Max 25GbE Ports	16	16	—	—
Max 10GbE Ports	16	16	—	—
Typical/Max Power Draw	36 W ² / 88 W ³	83 W ² / 140 W ⁴	72 W ² / 140 W ⁵	72 W ² / 140 W ⁵
Size (HxWxD)	6.7" x 1.7" x 9.5" (17 x 4.4 x 24.2cm)	6.7" x 1.7" x 9.5" (17 x 4.4 x 24.2cm)	6.7" x 1.7" x 9.5" (17 x 4.4 x 24.2cm)	6.7" x 1.7" x 9.5" (17 x 4.4 x 24.2cm)
Weight	2.56 lbs (1.16kg)	3.1 lbs (1.41kg)	2.7 lbs (1.23kg)	2.7 lbs (1.23kg)
Chassis Support	DCS-7368-CH			
Airflow Option	Front to Rear / Rear to Front		Front to Rear Only	
Minimum EOS	4.25.1	4.28.0	4.24.1	4.24.1

1. System configuration: 1 x Sup, 1 x Switch Card, 8 x 16C line cards, 5 x fans, 2 x power supplies

2. Power excluding optics or cables, add power rating for optics to determine typical budget

3. Maximum power measured with 2.5W optics on all ports, adjust as appropriate for lower power optics

4. Maximum power measured with 4.5W optics on all ports, adjust as appropriate for lower power optics

5. Maximum power measured with 20W optics on all ports, adjust as appropriate for lower power optics

Switch Card	DCS-7358X4-SC
Packet Buffer Memory	132 MB (Dynamic Buffer Allocation)
Maximum Throughput	12.8 Tbps / 5.3 Bpps
Latency	900 ns
Size (HxWxD)	4.8" x 17.0" x 16.4" (12.2 x 43.2 x 41.6cm)
Weight	28.0 lbs (12.73 kg)
Typical/Max Power Draw	215W / 385W
Chassis Support	DCS-7368-CH
Minimum EOS	4.28.1

Power Supply Specifications

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

Environmental Characteristics

Operating Temperature ¹	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)

Standards Compliance

EMC	FCC Class A, ICES-003, EN 55032, EN IEC 61000-3-2:2019, EN 61000-3-3
Immunity	EN 55035 EN 300 386
Safety	EN 62368-1:2014 + A11:2017 IEC 62368-1:2014
Certifications	BSMI (Taiwan) CE (European Union) KCC (South Korea) NRTL (North America) RCM (Australia/New Zealand) UKCA (United Kingdom) VCCI (Japan)
EMC	FCC Class A, ICES-003, EN 55032, EN IEC 61000-3-2:2019, EN 61000-3-3
European Union Directives	2014/35/EU Low Voltage Directive 2014/30/EU EMC Directive 2012/19/EU WEEE Directive 2011/65/EU RoHS Directive 2015/863/EU Commission Delegated Directive
Further Information	Product Certification Portal

1. Certain airflow configurations or the use of higher power or reduced temperature range optics may reduce maximum operating temperature.

Arista Optics and Cables

The Arista 7358X4 Series supports a wide range of 10G to 400G pluggable optics and cables. For details about the different optical modules and the minimum EOS Software release required for each of the supported optical modules, visit <https://www.arista.com/en/products/transceivers-cables>.

Supported Optics and Cables ¹

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

Supported Optics and Cables ¹

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

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 ¹

Interface Type	40G QSFP ports
10GBASE-CR	QSFP+ to 4xSFP+: 0.5m-5m lengths
40GBASE-CR4	QSFP+ to QSFP+: 0.5m-5m lengths
40GBASE-AOC	3m to 100m lengths
40GBASE-UNIV	150m OM3 / 150m OM4, 500m SM
40GBASE-SRBD	100m OM3 / 150m OM4 Duplex MMF
40GBASE-SR4	100m OM3 / 150m OM4 Parallel MMF
40GBASE-XSR4	300m OM3 / 400m OM4 Parallel MMF
40GBASE-PLRL4	1km (1km 4x10G LR/LRL)
40GBASE-PLR4	10km (10km 4x10G LR/LRL)
40GBASE-LRL4	1km Duplex SM
40GBASE-LR4	10km Duplex SM
40GBASE-ER4	40km Duplex SM
100GbE	100G QSFP ports
100GBASE-SR4	70m OM3 / 100m OM4 Parallel MMF
100GBASE-XSR4	150m OM3 / 300m OM4 Parallel MMF
100GBASE-SWDM4	70m OM3 / 100m OM4 Duplex MMF
100GBASE-SRBD	70m OM3 / 100m OM4 Duplex MMF
100GBASE-LR	10km Duplex SM
100GBASE-LR4	10km Duplex SM
100GBASE-LRL4	2km Duplex SM
100GBASE-XCWDM4	10km Duplex SM
100GBASE-CWDM4	2km Duplex SM
100GBASE-FR	2km Duplex SM
100GBASE-DR	500m Duplex SM
100GBASE-PSM4	500m Parallel SM
100GBASE-AOC	1m to 30m lengths
100GBASE-ERL4	40km Duplex SM
100GBASE-CR4	QSFP to QSFP: 1m to 5m lengths
50GBASE-CR2	QSFP to 2xQSFP: 1m to 5m lengths
25GBASE-CR	QSFP to SFP25: 1m to 5m lengths

Supported Optics and Cables ¹

10GbE	SFP+ ports
10GBASE-CR	SFP+ to SFP+: 0.5m-5m lengths
10GBASE-AOC	SFP+ to SFP+: 3m-30m lengths
10GBASE-SRL	100m OM3 / 150m OM4 Duplex MMF
10GBASE-SR	300m OM3 / 400m OM4 Duplex MMF
10GBASE-LRL	1km Duplex SM
10GBASE-LR	10km Duplex SM
10GBASE-ER	40km Duplex SM
10GBASE-ZR	80km Duplex SM
10GBASE-T	Up to 30m over Cat6a
10GBASE-DWDM	80km Duplex SM
25GbE	25G SFP Ports
25GBASE-CR	SFP25 to SFP25: 1m-5m lengths
25GBASE-AOC	SFP+ to SFP+: 3m-30m lengths
25GBASE-MR-XSR	25G: 200m OM3 / 300m OM4 Duplex MMF 10G: 300m OM3 / 400m OM4 Duplex MMF
25GBASE-MR-SR	25G: 70m OM3 / 100m OM4 Duplex MMF 10G: 300m OM3 / 400m OM4 Duplex MMF
25GBASE-SR	70m OM3 / 100m OM4 Duplex MMF
25GBASE-LR	10km Duplex SM
25GBASE-MR-LR	10km Duplex SM

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

Product Number	Product Description
DCS-7358X-BND-F	Arista 7358X chassis bundle. Includes 7368 chassis, 2 x AC PS, Supervisor, 7358X4-SC and Fans (front to rear airflow)
DCS-7358X-BND-R	Arista 7358X chassis bundle. Includes 7368 chassis, 2 x AC PS, Supervisor, 7358X4-SC and Fans (rear to front airflow)
DCS-7358X-BND-D-F	Arista 7358X chassis bundle. Includes 7368 chassis, 2 x AC PS, Supervisor-SSD, 7358X4-SC and Fans (front to rear airflow)
DCS-7358X-BND-D-R	Arista 7358X chassis bundle. Includes 7368 chassis, 2 x AC PS, Supervisor-SSD, 7358X4-SC and Fans (rear to front airflow)
DCS-7358X-128-BND-F	Arista 7358X 100G System bundle. Includes 7358X-BND Bundle and 128 x 100G QSFP ports (front to rear airflow)
DCS-7358X-128-BND-R	Arista 7358X 100G System bundle. Includes 7358X-BND Bundle and 128 x 100G QSFP ports (rear to front airflow)
DCS-7358X-128-BND-D-F	Arista 7358X 100G System bundle. Includes 7358X-BND-D Bundle and 128 x 100G QSFP ports (front to rear airflow)
DCS-7358X-128-BND-D-R	Arista 7358X 100G System bundle. Includes 7358X-BND-D Bundle and 128 x 100G QSFP ports (rear to front airflow)
DCS-7368-SUP	Supervisor module for 7358X/7368X Series
DCS-7368-SUP-D	Supervisor module for 7358X/7368X Series, with SSD
DCS-7368-4P	Arista 7368X-4P module for 7358X/7368X Series, 4 port 400GbE OSFP (Spare)
DCS-7368-4D	Arista 7368X-4D module for 7358X/7368X Series, 4 port 400GbE QSFP-DD (Spare)
DCS-7358-16C	Arista 7358X-16C module for 7358X/7368X Series, 16 port 100GbE QSFP (Spare)
DCS-7368-16S	Arista 7368X-16S module for 7358X/7368X Series, 16 port 25GbE SFP (Spare)
LIC-FIX-3-E	Enhanced L3 License for Arista Group 3 Fixed switches, (BGP, OSPF, ISIS, PIM, NAT)
LIC-FIX-3-Z	Monitoring & Automation license for Arista Group 3 Fixed switches (ZTP, LANZ, TapAgg, OpenFlow)
LIC-FIX-3-V	Virtualization license for Group 3 Arista Fixed switches (VMTracer and VXLAN)
LIC-FIX-3-V2	EOS Extensions, Security and Partner Integration license for Arista Group 3 Fixed switches
LIC-FIX-3-FLX-L	FLX-Lite License for Arista Fixed switches Group 3 - Full Routing Up to 256K Routes, EVPN, VXLAN, SR, base MPLS LSR (no TE or link/node protection)
LIC-FIX-3-FLX	FLX License for Arista Fixed Group 3 - Full Routing upto 2M Routes, >24K ACL, EVPN, VXLAN, SR, Adv MPLS-LER/LSR, with TE & link/node protection

Note: Many components are common to the 7368X4 Series

Optional Components and Spares

FAN-7002H-F	Spare high speed fan module for Arista 7358X/7368X switches (front to rear airflow)
FAN-7002H-R	Spare high speed fan module for Arista 7358X/7368X switches (rear to front airflow)
PWR-1900AC-F	Spare 1900 Watt AC power supply for Arista 7358X/7368X Switches (front-to-rear airflow)
PWR-1900AC-R	Spare 1900 Watt AC power supply for Arista 7358X/7368X Switches (rear to front airflow)
PWR-1900-DC-F	Spare 1900W DC Power Supply for 7358X/7368X Switches (front to rear airflow)
PWR-1900-DC-R	Spare 1900W DC Power Supply for 7358X/7368X Switches (rear to front airflow)
DCS-7368-PCVR	Blank Cover for 7358X/7368X Power Supply Slot
DCS-7368-LCVR	Blank cover for 7358X/7368X module slot
KIT-7368	Spare accessory kit for Arista 7358X, 7368X and 7289R Series 4U switches. 4-post mount. (2x C19-C20, 2m)
DCS-7368-CH	Arista 7368 empty chassis, 1 supervisor slot, 8 module slots
DCS-7358X4-SC-F	7358X Switch Card for 7358 chassis, X4-SC, includes Fans (front to rear airflow)
DCS-7358X4-SC-R	7358X Switch Card for 7358 chassis, X4-SC, includes Fans (rear to front airflow)
CAB-C19-C20	Power cord C19 to C20 (2m)
CAB-C19-L6-20	Power cord C19 to L6-20 (2.5m)

Warranty

The Arista 7358X4 switches 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>

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