Product Highlights

Performance

- 30 Terabits per second fabric capacity
- Up to 14.4 billion packets per second
- Up to 3.84 Terabit per second per slot
- 1,152 wire-speed 10GbE ports
- 288 wire-speed 40GbE ports
- 96 wire-speed 100GbE ports
- Under 4 microsecond latency (64 bytes)

High Hardware Availability

- 2+2 Grid redundant power system
- 1+1 Supervisor redundancy
- N+1 Fabric module redundancy
- N+1 Fan module redundancy

Virtualization and Provisioning

- VXLAN for next generation DC
- LANZ for microburst detection
- VM Tracer
- Zero Touch Provisioning (ZTP)
- Advanced Event Monitoring
- sFlow (RFC3176)
- IEEE 1588 PTP

Scalable Architecture

- Dense 40GbE and 100GbE
- Deep packet buffer (18GB per line card)
- 9,216 Virtual Output Queues per port

Resilient Control Plane

- Quad-core Hyper-threaded x86 CPU
- 16GB DRAM / 4GB Flash
- Dual Supervisor modules
- User applications can run in a VM

Data Center Class Design

- 7RU or 11RU chassis options
- Front-to-rear airflow for optimized cooling
- 4W per 10GbE port typical power for lower cost of ownership
- Up to 4,608 ports per 44U rack

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++

Overview

Designed for large virtualized data centers and cloud networks the Arista 7500 Series modular switches are the industry's highest performance data center switches, available in a compact 7RU (4-slot) or 11RU (8-slot) they combine scalable L2 and L3 resources with advanced features for network monitoring, precision timing, network virtualization to deliver scalable and deterministic network performance for mission critical data centers, enterprise and HPC environments.

The Arista 7500E is the second generation of the 7500 Series and delivers seamless upgrades ensuring investment protection of first generation fabrics, line cards and common equipment while setting a new standard for performance, density, reliability, and power efficiency. The Arista 7500E Series offers over 30Tbps of total capacity for 1,152 ports of 10GbE or 288 ports of 40GbE and support for 96 ports of wire-speed 100GbE with a broad choice of interface types that support flexible combinations of 10G, 40G and 100G modes on a single port.

With front-to-rear airflow, redundant and hot swappable supervisor, power, fabric and cooling modules the system is purpose built for data centers. The 7500E Series is energy efficient with typical power consumption of under 4 watts per port for a fully loaded chassis. All of these attributes make the Arista 7500E an ideal platform for building reliable, low latency, resilient and highly scalable data center networks.

Arista 7500E Series Modular Data Center Switches

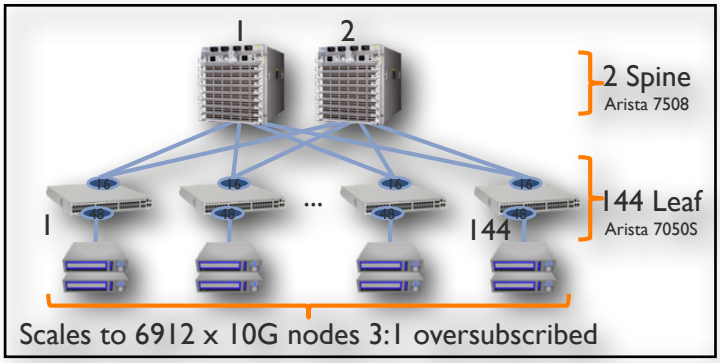
Arista EOS

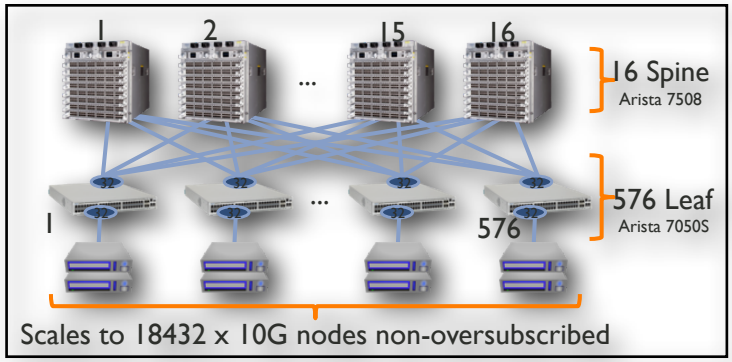
All Arista products including the 7500E Series runs the same Arista EOS software, binary image simplifying network administration with a single standard across all switches. Arista EOS is a modular switch operating system with a unique state sharing architecture that cleanly separates switch state from 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 together with stateful switchover without the loss of data plane forwarding.

Arista EOS enables advanced monitoring and automation capabilities such as Zero Touch Provisioning, LANZ, VM Tracer and Linux based tools to be run natively on the switch.

Scaling Data Center Performance

The Arista 7500E delivers true line rate non-blocking switching capacity to enable dramatically faster and simpler network designs for data centers that lowers network capital and operational expenses. When used in conjunction with Arista 7050 or 7150 10G leaf switches and Arista's Multi-Chassis Link Aggregation (MLAG) technology, a pair of 7508E Switches can support over 6,000 Servers with a leaf and spine active/active L2 network topology. A combination of 16 Arista 7508E switches in a spine at Layer 3 scales the network up to over 18,000 10G Servers in a fully non-blocking, low-latency, two-stage network that provides predictable and consistent application performance. 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. Arista EOS advanced features provides control, and visibility with single point of management.





Arista Leaf-Spine Two-Tier Network Architecture

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 VXLAN for most flexibility
- Cloud Control - Standards based AEM, ZTP/ZTR, LANZ and DANZ
- Network Wide Virtualization - Multi-vendor API Support with eAPI, VXLAN and NSX, and other encapsulation techniques
- Network Applications and Automated Management - Network applications; single point of management and open - Openstack, OpenVirtualSwitch and OVSDB

Deterministic Network Performance

The Arista 7500 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 including 802.1Qaz ETS. As a result, the Arista 7500 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.

Maximum Flexibility

- 64-way ECMP and 128-way MLAG to provide scalable designs and balance traffic evenly across large scale 2 tier leaf-spine designs
- VoQ architecture and deep packet buffering to eliminate head of line blocking
- Flexible allocation of L2 and L3 forwarding table resources for more design choice
- Wide choice of dense 10G/40G/100G modules and MPO ports for single port multi-speed flexibility
- VXLAN and virtualization features to enable next generation data center designs
- PTP, sFlow, DANZ and multi-port mirroring to detect micro-burst congestion and provide network wide visibility and monitoring
- ACL scalability with up to 12K entries per forwarding engine and 72K ACL entries per module

Enhanced Features for High Performance Networks

The Arista 7500E 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 next-generation virtualization.

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 10/40/100Gbps 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. The system clock can be synchronized using the Supervisor module clock input port with a PPS source or IEEE 1588 PTP.

Virtualization

Supporting next-generation virtualized data centers requires tight integration with orchestration tools and emerging encapsulation technologies such as VXLAN. The 7500E builds 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, the 7500E makes integration of non-VXLAN aware devices including servers, firewalls and load-balancers seamless and provides the ability to leverage VXLAN as a standards based L2 extension technology for non-MPLS environments.

Arista 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.

Line Card Modules

Wire-speed line cards deliver up to 14.4 Billion packets per second of forwarding with a distributed virtual output queue architecture and lossless fabric that eliminates head-of-line blocking and provides fairness across all ports. Line cards contains up to 18GB of packet memory for approximately 40msec of traffic buffer per ingress port and virtually eliminating packet drops in congestion scenarios. Line cards connects to all fabric modules in a non-blocking full mesh.

The Arista 7508 and 7504 chassis can be populated with any combination of line cards. For environments requiring the highest performance combined with scalability a range of speed and interface options is available addressing dense 1/10G, 40G and 100G with full support for industry standard connections and comprehensive layer 2 and 3 features for flexible deployment choice.

Embedded optics combined with MPO interfaces provide a multi-speed port (MXP) capability that increases system density with a choice of 10G/40G/100G interfaces. MXP ports support a mix and match option of 12 x 10G, 3 x 40G or 1x 100G per port. With support for up to 400m over multi-mode fiber MXP ports provide high density and seamless migration from 10G to 100G without replacing transceivers or lowering system density.

Line cards with CFP2 and QSFP support industry standard 100G optics for both single and multi-mode fiber for distances up to 40km.

12 port 100GbE QSFP line card for broad interface choice and high density

- QSFP optics for flexible 10G, 40G and 100G with standards compliant optics

12 port 100GbE SR10 MXP line card with embedded optics

- Maximum 96 100GbE, 288 40GbE and 1,152 10GbE ports
- Up to 300/400m on OM3/OM4 for standards compliant 10G, 40G and 100G

6 port 100GbE CFP2 line card for flexible range of 100G, 40G and 10G ports

- CFP2 optics for standards compliant LR4, SR10 and ER4 interfaces

36 port QSFP+ 40G line card for 10G/40G

- 288 40GbE or 1,152 10GbE ports with QSFP+ optics and breakout cables
- Choice of Copper, Multimode and Single-mode with 40G and 10G options

48 port SFP+ for 1/10GbE and 2 port 100GbE SR10 MXP line card

- Up to 72 10G ports per line card or 48 1/10GbE ports and flexible 40G/100G
- Two MXP ports allow choice of 2 x 100GbE, 6 x 40GbE or 24 x 10GbE

48 port SFP+ line card for wire-speed 1/10GbE and consistent features

- Dense 10G with deep buffers, broadest range of 1GbE and 10GbE transceivers

48 port 10GBASE-T line card for 100M/1/10GbE and consistent features

- Dense 10G with deep buffers, flexible 100M to 10G mixed speeds

Designed for High Availability and Manageability

The Arista 7500E Series are designed for continuous operations with system wide monitoring of both hardware and software components, simple serviceability and provisioning to prevent single points of failure. The hardware supports high-availability with hot-swap of all components with redundant supervisors, power supplies, fabric and cooling modules. Fabric N+1 redundancy provides zero loss of performance with deterministic degradation and integrated fan systems provide dynamic temperature control combined with N +1 redundancy. The 7500E offers 2+2 power redundancy that supports both power source and power supply redundancy.

The Arista EOS software supports stateful failover between the dual redundant supervisors as well as self-healing stateful fault containment (SFC), stateful fault repair (SFR) and live patching through in-service-software updates to help ensure continuous service.

The Arista 7500E lowers total cost of ownership as it is designed to be efficient with power per port as low as 4W per 10GbE port which combined with front to rear cooling to optimize the data center environment produces the most reliable, dense and power efficient modular switch.

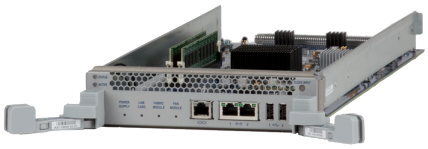
7500 Chassis - 8-slot and 4-slot

The 7500 chassis provides room for two supervisor modules, four or eight line card modules, four power supply modules, and six fabric modules. The 7504 chassis fits into 7 rack units while the 7508 chassis fits into 11U of a standard data center rack. Supervisor and line card modules plug in from the front, while the fabric and power supply modules are inserted from the rear. The midplane is completely passive and provides control plane connectivity to each of the fabric and line card modules. The system design is optimized for data center deployments with front-to-rear airflow.

Arista 7500 Series Chassis

7500E Supervisor Module

The supervisor modules for the 7500 series run Arista Extensible Operating System (EOS) and handle all control plane and management functions of the system. One supervisor module is needed to run the system and a second can be added for stateful 1+1 redundancy. Each supervisor module takes up only a half slot resulting in very efficient use of space and a higher density design. The quad-core x86 CPU with 16GB of DRAM and an optional SSD provides the control plane performance needed to run an advanced data center switch scaling to over 1,000 physical ports and thousands of virtual ports. A pulse per second clock input port enables synchronizing with an external source to improve the accuracy of monitoring tools.



Arista 7500 Series Supervisor

7500E Fabric Module

At the heart of the 7500E series is the fabric. It interconnects all line cards in a non-blocking architecture irrespective of the traffic pattern providing a full 5.12 Tbps per fabric module. Each line card module connects to the fabric with multiple links and data packets are spread across the links to fully utilize the fabric capacity. Unlike hash-based selection of fabric links, the 7500E architecture provides 100% efficient connectivity from any port to any other port with no drops. The fabric modules are always active-active, provide N+1 redundancy and can be hot-swapped with zero performance degradation. The Fabric Modules for the 7508E and the 7504E are different based on the size of the chassis and both integrate a fan assembly for flexible and redundant cooling.

Arista 7500 Series Fabric Modules

7500E Power Supply Module

The 7500E series switches are equipped with four 2900W AC power supplies. The power supplies are 2+2 grid redundant and hot-swappable. The power supplies are gold climate saver rated and have an efficiency of over 90% with single stage conversion to the internal 12V DC voltage.

Arista 7500 Series Power Supply

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
  - 256 groups per system (1152 groups *)
- 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
- Jumbo Frames (9216 Bytes)
- IGMP v1/v2/v3 snooping
- Storm Control
- Private VLANs *
- 802.1 AVB

Layer 3 Features

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

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)
- Advanced Mirroring
  - Port Mirroring (16 sessions)
  - Enhanced Remote Port Mirroring *
  - SPAN/TAP M:N Aggregation
  - L2/3/4 Filtering *
- Advanced Event Management suite (AEM)
  - CLI Scheduler
  - Event Manager
  - Event Monitor
  - Linux tools
- Integrated packet capture/analysis with TCPDump
- Restore and Configure from USB
- RFC 3176 sFlow
- Optional SSD for logging and data capture
- IEEE 1588 PTP *

Virtualization Support

- VXLAN Gateway (draft-mahlingam-dutt-dcops-vxlan-01)
- VXLAN Tunnel Endpoint
- VXLAN Bridging
- VM Tracer VMware Integration
  - VMware vSphere support
  - VM Auto Discovery
  - VM Adaptive Segmentation
  - VM Host View

Security Features

- Ingress / Egress ACLs using L2, L3, L4 fields
- ACL Logging and Counters
- Control Plane Protection (CPP)
- DHCP Relay
- MAC Security
- 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 / WRR
- Policing / Shaping
- Rate limiting *
- Explicit Congestion Notification (ECN)
- Per-Priority Flow Control (PFC)
- 802.1Qaz Enhanced Transmission Selection (ETS)*
- Data Center Bridging Extensions (DCBX)*

Network Management

- CloudVision Task-Oriented Multi-Device CLI
- 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

* Not currently supported in EOS

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
  - C++
  - eAPI
  - OpenStack Neutron Support
- Native KVM/QEMU support

Line card Features

- 9216 Byte Jumbo Frame Support
- 8 Priority Queues per Port
- 1152 Link Aggregation Groups (LAG)
- 32 Ports per LAG
- 128K-256K MAC Addresses
- 128K ARP Entries
- 128K-256K IPv4 Host Routes
- 64K IPv4 Unicast LPM
- 12K-16K IPv6 Unicast LPM Routes
- 128K-256K IPv6 Unicast Host Routes
- 12K-256K Multicast Routes
- 12,000 ACL Entries per Forwarding Engine
- Up to 72,000 ACL Entries per Line card

Fabric Features

- 30 Terabit/sec Capacity
- 3.84 Terabit/sec per Line card
- 5.12 Terabit/sec per Fabric Module
- N+1 Redundant
- Non-blocking
- Virtual Output Queueing
- Self-healing
- Distributed Scheduler
- WFQ, CIR*, ETS*, Fixed Priority

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
- 802.3ba 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 Autoconfiguration
- RFC 2463 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification
- 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

Chassis	DCS-7508	DCS-7504
Supervisor slots	2	2
Linecard Slots	8	4
Fabric Module Slots	6	6
Power Supply Slots	4	4
Physical Dimensions (HxWxD)	19.1" x 19" x 30" (48.5 x 48.3 x 76.2cm)	12.25" x 19" x 30" (31.15 x 48.3 x 76.2cm)
Weight (Chassis only)	95 lbs (43.1 kg)	76.5 lbs (34.7 kg)
Weight (Fully configured system)	300 lbs (136 kg)	210 lbs (95 kg)
Maximum 10GbE Port Density	1,152 Ports	576 Ports
Maximum 40GbE Port Density	288 Ports	144 Ports
Maximum 100GbE Port Density	96 Ports	48 Ports
Maximum Throughput / Packets per Second	30 Tbps / 14.4 Bpps	15 Tbps / 7.2 Bpps
Max Power Consumption	5,790W	3,010W

Fabric Module	DCS-7508E-FM	DCS-7504E-FM
Redundancy	5+1	5+1
Physical Dimensions (HxWxD)	2.5" x 14" x 10.25" (6.4 x 35.6 x 26cm)	2.5" x 8.5" x 10.25" (6.4 x 21.5 x 26cm)
Weight	10 lbs (4.5 kg)	6.5 lbs (2.8 kg)
Typical Power (Maximum) *	155W (195W)	80W (105W)
Integrated Fan Module	Yes	Yes
Chassis Support	DCS-7508	DCS-7504

Linecard	7500E-12CQ	7500E-12CM	7500E-36Q	7500E-6C2	7500E-72S	7500E-48S	7500E-48T
Ports	12 QSFP100 (40G/100G)	12 MXP (10G/40G/100G)	36 QSFP+ (10G/40G)	6 CFP2 (10G/40G/100G)	48 SFP+ (1G/10G) 2 MXP (10G/40G/100G)	48 SFP+ (1G/10G)	48 10GBASE-T (100M/1G/10G)
Max 10GbE	48	144	144	60	72	48	48
Max 40GbE	12	36	36	12	6	-	-
Max 100GbE	12	12	-	6	2	-	-
Port Buffer	18GB	18GB	18GB	9GB	9GB	9GB	6GB
Weight	14 lbs (6.4 kg)	15.5 lbs (7.0 kg)	15 lbs (6.8 kg)	12.4 lbs (5.6 kg)	13 lbs (5.9 kg)	12.5 lbs (5.7 kg)	13 lbs (5.9 kg)
Typical (Max) Power *	414W (486W)	408W (495W)	450W (556W)	300W (320W)	212W (305W)	197W (285W)	318W (332W)
Dimensions (WxHxD)	17.5" x 1.75" x 23" (44.5 x 4.5 x 58.4cm)						
Chassis Support	DCS-7508 and DCS-7504						

* Typical power consumption measured at 25C ambient with 50% load on all ports

Supervisor Module DCS-7500E-SUP

Processor	2.6Ghz, Quad Core, x86, 64-bit
System Memory	16 GB
Flash Storage Memory	4 GB
RS-232 Serial Ports	One (RJ-45)
100/1000 Management Ports	Two (RJ-45)
USB 2.0 Interface	Two
SSD Storage	100GB Optional
Physical Dimensions (WxHxD)	8.5" x 1.75" x 23" (21.6 x 4.4 x 58.4cm)
Weight	5 lbs (2.4 kg)
Typical Power (Maximum)	105W (112W)
Chassis Support	DCS-7508 and DCS-7504

PWR-2900AC Power Supply Specifications

Input Circuit (Max)	200 - 240V, 16A (20A UL)
Input Frequency	50-60 Hz, single phase AC
Output Power	2900W
Input Connector	IEC 240 C19
Size (WxHxD)	4.25" x 3.25" x 10" (10.8 x 8.3 x 25.4cm)
Weight	5.3 lbs (2.4 kg)
Chassis Support	DCS-7508 and DCS-7504

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)
Airflow	Maximum 800 CFM @ 40 ˚C / Typical 600 CFM @ 25 ˚C

Standards Compliance

EMI	FCC Part 15 Class A, ICES-003 Class A, VCCI Class A
Safety	Safety IEC/UL/CSA/EN 60950 CE, UL, cTUVus, TUV Mark
Other	ROHS compliant

* Not currently supported in EOS

Supported Optics and Cables

Interface Type	SFP+ ports	QSFP+ ports
40GBASE-CR4	-	0.5m-5m QSFP+ to QSFP+
40GBASE-AOC		3m to 100m
40GBASE-UNIV		150m (OM3) / 150m (OM4) 500m (SM)
40GBASE-SR4	-	100m (OM3) / 150m (OM4)
40GBASE-XSR4	-	300m (OM3) / 400m (OM4)
40GBASE-PLRL4	-	1km (1km 4x10G LR/LRL)
40GBASE-PLR4	-	10km (10km 4x10G LR/LRL)
40GBASE-LRL4	-	1km
40GBASE-LR4	-	10km
40GBASE-ER4	-	40km
Interface Type	**SFP+ ports**	**QSFP+ ports**
10GBASE-CR	SFP+ to SFP+: 0.5m-5m	QSFP+ to 4 xSFP+: 0.5m-5m
10GBASE-AOC	SFP+ to SFP+: 3m-30m	
10GBASE-SRL	100m (OM3) / 150m (OM4)	-
10GBASE-SR	300m (OM3) /400m (OM4)	-
10GBASE-LRL	1km	-
10GBASE-LR	10km	-
10GBASE-ER	40km	-
10GBASE-ZR	80km	-
10GBASE-DWDM	80km	-
100/1000BASE-T, 1GbE SX/LX	Yes	-
Interface Type	**100G CFP2 Ports**	**100G QSFP Ports ***
100GBASE-XSR10	300m OM3 / 400m OM4 Parallel MMF	-
100GBASE-SR4	-	100m OM3 / 150m OM4 Parallel MMF
100GBASE-LR4	10km SM Duplex	10km SM Duplex
100GBASE-LRL4		2km SM Duplex
100GBASE-ER4	40km SM Duplex	
100GBASE-CLR4*	-	1km SM duplex
100GBASE-AOC *	-	Yes (various lengths)
100GBASE-CR4 *	-	Yes (various lengths)

Product Number	Product Description
DCS-7508E-BND	Arista 7508E chassis bundle. Includes 7508 chassis, 4x2900PS, 6xFabric-E modules, 1xSupervisor-E
DCS-7504E-BND	Arista 7504E chassis bundle. Includes 7504 chassis, 4x2900PS, 6xFabric-E modules, 1xSupervisor-E
DCS-7508E-BND-D	Arista 7508E chassis bundle. Includes 7508 chassis, 4x2900PS, 6xFabric-E modules, 1xSupervisor-E-SSD
DCS-7504E-BND-D	Arista 7504E chassis bundle. Includes 7504 chassis, 4x2900PS, 6xFabric-E modules, 1xSupervisor-E-SSD
DCS-7500E-SUP	Supervisor module for 7500E series chassis, two required for redundancy
DCS-7500E-SUP-D	Supervisor module for 7500E series chassis with 100GB SSD, two required for redundancy
DCS-7500E-36Q-LC	36 port 40GbE QSFP+ wire-speed line card for 7500E Series
DCS-7500E-72S-LC	48 port 10GbE SFP+ & 2 x 100GbE SR10 Embedded MXP wire-speed line card for 7500E Series
DCS-7500E-48S-LC	48 port 1/10GbE SFP+ wire-speed line card for 7500E Series
DCS-7500E-48T-LC	48 port RJ45 10GBASE-T wire-speed line card for 7500E Series
DCS-7500E-12CM-LC	12 port 100GbE SR10 Embedded MXP wire-speed line card for 7500E Series
DCS-7500E-6C2-LC	6 port 100GbE CFP2 wire-speed line card for 7500E Series
DCS-7500E-12CQ-LC	12 port 100GbE QSFP wire-speed line card for 7500E Series
Optional Components and Spares	
DCS-7508-CH	Arista 7508 chassis. 2 supervisor slots, 8 line card slots, 6 fabric slots
DCS-7504-CH	Arista 7504 chassis. 2 supervisor slots, 4 line card slots, 6 fabric slots
DCS-7508E-FM	Fabric-E (integrated fan) Module for 7508-E Chassis, required for fabric slots 1-6
DCS-7504E-FM	Fabric-E (integrated fan) Module for 7504-E Chassis, required for fabric slots 1-6
DCS-7500-SCVR	Blank cover for 7500 supervisor slot
DCS-7500-LCVR	Blank cover for 7500 line card slot
PWR-2900AC	2900W AC power supply for 7500 series
LIC-MOD-1-E	Enhanced Software License for Arista Modular switches - 4 slots (OSPF, BGP, ISIS, PIM)
LIC-MOD-2-E	Enhanced Software License for Arista Modular switches - 8 & 16-slots (OSPF, BGP, ISIS, PIM)
LIC-MOD-1-V	Virtualization license for Arista Modular switches - 4 slots (VM Tracer and VXLAN)
LIC-MOD-2-V	Virtualization license for Arista Modular switches - 8 & 16-slots (VM Tracer and VXLAN)
LIC-MOD-1-Z	Monitoring & provisioning license for Arista Modular switches - 4 slots (ZTP, LANZ, API, TapAgg)
LIC-MOD-2-Z	Monitoring & provisioning license for Arista Modular switches - 8 & 16-slots (ZTP, LANZ, API, TapAgg)
KIT-7508	Spare accessory kit for Arista 7508. Includes 4xC19-C20 power cords, 2 & 4 post mounting brackets
CAB-C19-C20	Power cord, C19 to C20 (2m)
CAB-C19-L6-20	Power cord, C19 to L6-20 (2.5m)

Note:
- Arista 7500 switches ship with four C19-C20 power cables (2m). Other power cables must be ordered separately
- Front-to-rear means the air flows from the switch port side to the fan side

Warranty

The Arista 7500E Series switches come 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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