Product Highlights

System Scale and Performance

- 460 Tbps (920 Tbps FDX) fabric capacity
- Up to 173 Billion packets per second
- Up to 28.8 Tbps per slot
- Up to 576 wire-speed 800G ports
- 100G, 200G, 400G and 800G modes
- Deep packet buffer up to 32 GB /line card

Optimized for AI/ML and HPC Clusters

- Fully scheduled lossless interconnect
- 100% efficient cell based load balancing
- Distributed hardware scheduler
- Per port Virtual Output Queuing to eliminate head of line blocking
- Hardware accelerated link health management
- Under 4 microsecond latency (64 bytes)
- Ultra Ethernet ready

High Availability

- Dual-input grid redundant power supplies
- Configurable PSU redundancy up to N+N
- 1+1 Supervisor redundancy
- Graceful fabric module redundancy

Arista Etherlink for AI

- AI Analyzer powered by AVA
- Advanced RDMA load balancing
- Optimized DCQCN, ECN, PFC congestion management
- AI workflow integration

Advanced Provisioning, Monitoring

- CloudVision
- LANZ for microburst detection
- Zero Touch Provisioning (ZTP)
- Accelerated sFlow (RFC3176)
- IEEE 1588 PTP

Power Efficiency

- High efficiency power and cooling design
- Linear-drive pluggable optics (LPO)

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
- Open APIs and Real-time telemetry
- Extensible platform - bash, python, C++

Overview

The Arista 7800R4 Series of purpose built modular switches deliver the industry's highest single-hop network performance. Scaling to 460 Tbps (920 Tbps Full Duplex) of system throughput, 576 ports of 800GbE or 1152 ports of 400GbE, the very large radix of the 7800R4 series meets the needs of small and medium AI clusters in a single tier, while scaling to support tens or hundreds of thousands of accelerators in a 2-tier or 3-tier leaf-spine topology.

Available in a choice of 16, 12, 8 and 4 slots, the Arista 7800R4 is the second generation of the 7800R Series and delivers a consistent architecture offering the same deep buffer, non-blocking, fully scheduled and lossless VOQ cell-spraying fabric while doubling performance and density and improving power efficiency.

The Ultra Ethernet ready, fair and lossless forwarding architecture delivers best in class application performance with advanced features for visibility, telemetry and monitoring; delivering reliability, scalability and deterministic performance that is critical to maximizing accelerator utilization.

All components are hot swappable, with redundant supervisor, power, fabric and cooling modules with front-to-rear airflow. The system is purpose built for business critical availability and is energy efficient with best in class power consumption. These attributes make the Arista 7800R an ideal platform for AI back-end and front-end interconnects.

Arista 7800R Series Modular Data Center Switches

Arista EOS

All Arista products including the 7800R4 Series runs the same Arista EOS software, simplifying network administration with a common 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 AI Tracer, Zero Touch Provisioning, LANZ, VM Tracer and Linux based tools to be run natively on the switch.

System Overview

The 7800R4 Series offers architectural consistency to the 7800R3 and 7280R3 Series that ensures long term investment protection with support for deterministic fair delivery, flexible scale and open programmability. The following 7800R4 chassis options are available, each supporting HVAC, HVDC and LVDC power options:

- **7816LR** a 16-slot 32RU chassis that supports up to 16 line cards
- **7812R** a 12-slot 23RU chassis that supports up to 12 line cards
- **7808R** an 8-slot 16 RU chassis that supports up to 8 line cards
- **7804R** a 4-slot 10 RU chassis that supports up to 4 line cards

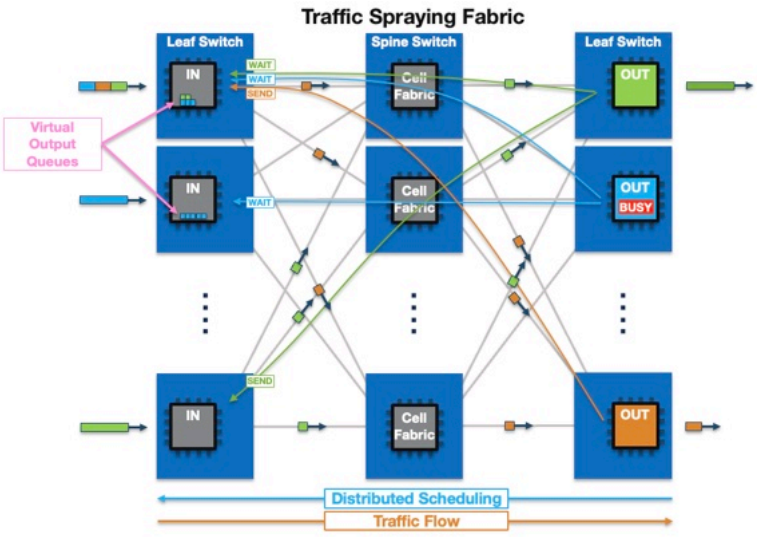
7800R4 systems equipped with R4C line cards are optimized for scaling high capacity AI/ML and HPC clusters as either a single tier interconnect or as a spine switch for two-tier cluster interconnects. Maximizing the radix of connectivity in a single device while minimizing power per Gbps means the 7800R4 series offers the best value and best application performance compared to multiple tiers of fixed systems.

7800R4 Fully Scheduled Lossless Network Performance

The Arista 7800R Series are purpose built multi-chip systems with fully distributed end to end scheduling and coordination - even in the largest 16-slot, 576x 800GbE variant, the platform operates like a single extremely large switching chip that is 100% internally lossless and fair. Four advanced technologies converge to this highly desirable architecture:

- **Cell-based fabric -** mitigates elephant and mice flows with uniform cells sprayed across all fabric links for 100% efficiency
- **Virtual Output Queues (VOQ) -** invokes ingress virtual queues to every egress port, eliminating head of line blocking (HOLB)
- **Distributed Credit Scheduling -** ensures all egress ports are independent eliminating HOLB and noisy neighbour issues
- **Deep Buffering -** easily handles incast, bursts and speed mismatches without packet loss, keeping TCP running efficiently

This advanced architecture enables the Arista 7800R to handle the most demanding workloads with ease. AI clusters, data centers and Service Provider networks all benefit from the 7800R family's ability to handle high bandwidth low entropy traffic, mixed traffic loads, real-time, multicast, and storage traffic while still delivering low latency and non-blocking performance.



7700R4 Series Fully Scheduled Architecture

7800R4 Series Chassis - 16-Slot, 12-slot, 8-slot and 4-slot

The 7800R Series chassis each provide room for two supervisor modules, four, eight, twelve or sixteen line card modules, grid redundant power supplies and five fabric modules. Supervisor and line card modules plug in from the front, along with the power supplies while the fabric modules are inserted from the rear.

The system uses a mid-plane-less design for direct and consistent connectivity from all line cards to all fabric modules providing identical capacity to all line card slots in addition to control plane connectivity to each of the fabric and line card modules.

The systems are optimized for data center deployments with front-to-rear airflow and support dual-input, internally redundant, HVAC, HVDC or LVDC power supplies. Existing 7800R3 systems may be upgraded to 7800R4 specification with R4 fabric modules and line cards.

Ideal Architecture for AI/ML and HPC Networks

Maximizing the ROI of high value Generative AI clusters requires a different approach to infrastructure than a typical data center. Back-end training networks need to be highly performant, delivering lossless and deterministic connectivity under 100% load conditions in order to minimize the completion times of each of the hundreds of thousands of inter-accelerator transactions that occur through the life of a training job. At high scale and for long running jobs, hardware and software quality and reliability are critical to ensuring jobs reach completion in one pass and expensive accelerators are not under utilized and jobs do not need to be repeated.

The AI ecosystem is innovating rapidly, with continuous development in accelerator hardware, libraries and underlying topologies. The 7800 Series is accelerator agnostic and Ultra Ethernet ready, enabling innovation in the compute layer, while providing unparalleled performance with its unique fully scheduled cell based architecture and industry leading hardware and software quality.

Scaling Compute Clusters with 7800R4

Building high performance back-end networks for accelerated computing presents unique problems for network architects. Due to the requirement for non-blocking or better bandwidth between any two accelerators in the cluster, with minimal opportunity for congestion, optimal back-end AI networks consist of only 1 or 2 tiers.

Due to relatively low port count of fixed systems, the maximum achievable scale in two tiers is limited, requiring expansion to complex topologies of three or more tiers increasing the complexity of topology construction, space and power consumption while also requiring extremely large numbers of optical transceivers (a three tier topology requires 50% more transceivers than a two tier equivalent). Such networks are prone to misconfiguration, and are difficult to construct and maintain, requiring additional and extensive tuning for maximum performance.

With up to 576 x 800GbE or 1152 x 400GbE, the 7800R4 series dramatically simplifies back-end networks. Many deployments require a single tier (a single switch) to which all accelerators connect directly, eliminating large quantities of optics and cables, the complexity of tuning congestion control protocols and minimizing the number of devices to manage, physical footprint and power consumption. The large radix of the 7800 also enables two-tier back-end networks to grow much larger than fixed system equivalents, with the capability to scale to over 160,000 800GbE or 660,000 400GbE accelerators in a non-blocking two-tier topology - around 80x the equivalent fixed system 2-tier maximum, dramatically reducing cost and complexity. Combining unprecedented scalability with the 100% fair and efficient internal architecture of the 7800 delivers the highest performance and bandwidth availability for AI applications.

Cluster Load Balancing (CLB)

Cluster Load Balancing is an innovative new AI load balancing mechanism, utilizing RDMA queue pairs to ensure optimal traffic distribution. AI clusters typically have low quantities of large bandwidth flows, which can result in high tail end latency if congestion occurs. CLB implements granular global flow placement to ensure high performance for all flows, minimizing job completion time.
Traditional load balancing methods perform local load-aware flow placement, optimizing leaf-to-spine links, however traffic from spine-to-leaf is typically less optimized. CLB approaches this problem with a global view, and is able to simultaneously optimize flows from both leaf-to-spine and spine-to-leaf, maximizing network utilization and efficiency.

CloudVision® for Accelerated Computing

CloudVision is a network-wide approach for workload orchestration and workflow automation as a turnkey solution for Accelerated Computing. CloudVision extends the EOS publish subscribe architecture for network-wide state, topology, monitoring and visibility. In large scale high performance environments, such as back-end networks for AI/ML training, it is critical to apply best-practise tuning parameters consistently across all devices and every interface to maximise performance. Due to the large number of devices and interfaces involved, this must be achieved in a fully automated fashion to avoid human-error.

CloudVision combined with Arista Validated Designs (AVD) enables a template driven automated common configuration model to be deployed deterministically across all network elements, implementing best-practise configuration parameters with minimal user input. When combined with the Arista AI Agent for compute hosts, configuration consistency and visibility is extended into the compute platform improving cluster deployment time, operational stability and end to end telemetry

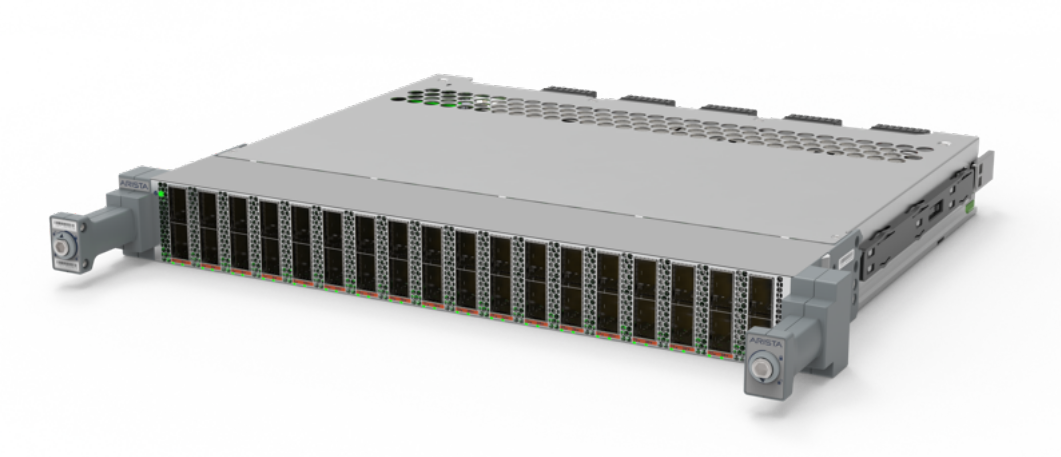
Precise Data Analysis

Arista's Streaming Telemetry, Latency Analyzer (LANZ), AI Analyzer and Precision Data Analyzer (DANZ) are integrated features of EOS. Together these capabilities provide a complete solution to the monitoring and visibility challenges at speeds up to 800Gbps giving IT operations the ability to proactively deliver feedback on congestion events, filter, replicate, aggregate and capture traffic without affecting production performance. EOS monitoring features include both event triggered monitoring for real-time micro-burst and congestion tracking as well as high rate counter polling down to 1ms granularity.

7800R4C Series Line Cards

7800R4C Series line cards provide up to 10.8 billion packets per second and 28.8 terabits per second of throughput with a choice of 800G interfaces with support for industry standard optics for both single and multi-mode fiber with the flexibility to enable multi-rate configurations. Line cards support 100G/200G and 400G breakout ensuring backwards and forwards compatibility and investment protection. Each line card provides up to 32GB of dynamically assigned packet memory for VOQ ensuring lossless, fair forwarding and virtually eliminating packet drops in transient congestion scenarios.

7800R4C line cards are optimized for cluster computing, implementing an AI optimized, lower latency and energy conserving pipeline while maintaining the core non-blocking, lossless forwarding architecture that enables intensive applications to perform to their maximum.



7800R4C-36PE series: 36 port 800G OSFP line card

- Up to 36 800G ports per line card or 72 400G ports
- 28.8 Tbps of forwarding and 10.8 Bpps with 32GB of buffer
- Optimized for compute clusters

Supervisor Modules

The supervisor modules for the 7800R4 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 1+1 redundancy. The multi-core x86 CPU with 64GB of DRAM and an optional SSD provides the control plane performance needed to run an advanced data center switch scaling to hundreds of physical ports and thousands of virtual ports.

Fabric Modules

At the heart of the 7800R4 series are the fabric modules which interconnect all line cards in a non-blocking architecture irrespective of the traffic. Each line card module connects to all fabric modules with multiple links. Data is chopped into cells and sprayed across all links to fully utilize the fabric capacity. Unlike hash-based selection of fabric links, the cell-based 7800R architecture provides 100% efficient connectivity from any port to any other port with no drops. Fabric modules are always active-active, provide redundancy and can be hot-swapped. Fabric modules contain individually serviceable fans for flexible and redundant cooling.

Power Supply Modules

The 7800R4 series switches are equipped with redundant and hot-swappable AC or DC power supplies with an internal variable speed fan. Each dual-input power supply integrates 1+1 grid redundancy in a choice of 3000W HVAC, HVDC or LVDC formats. AC supplies are Titanium climate saver rated and have an efficiency of over 94% with single stage conversion to the internal 12V DC voltage. DC supplies are available to suit either -40 to -72V or 240 to 380V direct current inputs.

Chassis	DCS-7816L	DCS-7812
Supervisor slots	2	2
Linecard Slots	16	12
Fabric Module Slots	6	6
Power Supply Slots (Max Power Budget)	24 (72 kW)	18 (54 kW)
Physical Dimensions (HxWxD)	55.6 x 17.4 x 37″ (141.3 x 44.1 x 94 cm)	39.9 x 17.4 x 37" (101.3 x 44.1 x 94 cm)
Rack Units	32	23
Weight (Chassis Only)	483 lbs (219 kg)	355 lbs (161 kg)
Weight (Full System)	1505 lbs (683 kg)	1077 lbs (486 kg)
Maximum 800G Density [1]	576	432
Maximum 400G Density [1]	1152	864
Maximum 100G Density [1]	4608	3456
Maximum Throughput (FDX)	460 (920) Tbps	345 (690) Tbps
Max Power Consumption [2]	28074 W	22394 W
Typical Airflow [3]	2723 cfm (77.1 m³/min)	2007 cfm (56.8 m³/min)
Max Airflow [3]	4620 cfm (130.8 m³/min)	3420 cfm (96.8 m³/min)

Chassis	DCS-7808	DCS-7804
Supervisor slots	2	2
Linecard Slots	8	4
Fabric Module Slots	6	6
Power Supply Slots (Max Power Budget)	12 (36 kW)	8 (24 kW)
Physical Dimensions (HxWxD)	27.7 x17.4 x 37.0" (70.3 x 44.1 x 94 cm)	17.2 x 17.4 x 37.0″ (43.6 x 44.1 x 94 cm)
Rack Units	16	10
Weight (Chassis Only)	222 lbs (101 kg)	163 lbs (74 kg)
Weight (Full System)	710 lbs (322 kg)	447 lbs (203 kg)
Maximum 800G Density [1]	288	144
Maximum 400G Density [1]	576	288
Maximum 100G Density [1]	2304	1152
Maximum Throughput (FDX)	230 (460) Tbps	115 (230) Tbps
Max Power Consumption [2]	14139 W	6801 W
Typical Airflow [3]	1404 cfm (39.8 m³/min)	934 cfm (26.5 m³/min)
Max Airflow [3]	2338 cfm (66.2 m³/min)	1351 cfm (38.3 m³/min)

1. Maximum density values based on per line card breakout with appropriate cables/transceivers and subject to EOS Scale
2. System maximum internal power calculated at 40C ambient with 100% load on all ports. Excludes optics power as this is a significant variable for 100G and 400G.
3. Typical airflow: default PSUs, 1x supervisor, full-fill of 7800R4C-36PE-LC at 25C, sea level. Max airflow: 40C+3km, 100% load, all line cards, supervisors and PSUs installed.

Fabric Module	DCS-7816LR4-FM	DCS-7812R4-FM
Redundancy	Graceful degradation supported	
Dimensions (HxWxD)	2.5" x 43.3" x 23.7" (6.4 x 109.9 x 60.1 cm)	2.5" x 31.6" x 23.7" (6.4 x 80.3 x 60.1 cm)
Weight	72.2 lbs (32.75 kg)	52.2 lbs (23.7 kg)
Typical (Max) Power [1]	TBD	1150 W (1752 W)
User Serviceable Fans	Yes (16 Fan Modules)	Yes (12 Fan Modules)
Chassis Support	DCS-7816L (Slots 1-5)	DCS-7812 (Slots 1-5)

Fabric Module	DCS-7808R4-FM	DCS-7804R4-FM
Redundancy	Graceful degradation supported	
Dimensions (HxWxD)	2.5" x 21.5" x 23.70" (6.4 x 54.7 x 60.1 cm)	2.5" x 12.4" x 23.70" (6.4 x 31.4 x 60.1 cm)
Weight	35.8 lbs (16.2 kg)	21 lbs (9.5 kg)
Typical (Max) Power [1]	562 W (936 W)	308 W (424 W)
User Serviceable Fans	Yes (8 Fan Modules)	Yes (4 Fan Modules)
Chassis Support	DCS-7808 (Slots 1-5)	DCS-7804 (Slots 1-5)

Fabric Cooling Module	DCS-7816L-FCM	DCS-7812-FCM
Redundancy	Graceful cooling degradation supported	
Dimensions (HxWxD)	2.5" x 43.3" x 23.7" (6.4 x 109.9 x 60.1 cm)	2.5" x 31.6" x 23.7" (6.4 x 80.3 x 60.1 cm)
Weight	47.6 lbs (32.8 kg)	35.2 lbs (16 kg)
Typical (Max) Power [1]	TBD	334 W (807 W)
User Serviceable Fans	Yes (16 Fan Modules)	Yes (12 Fan Modules)
Chassis Support	DCS-7816L (Slot 6)	DCS-7812 (Slot 6)

Fabric Cooling Module	DCS-7808-FCM	DCS-7804-FCM
Redundancy	Graceful cooling degradation supported	
Dimensions (HxWxD)	2.5" x 21.5" x 23.70" (6.4 x 54.7 x 60.1 cm)	2.5" x 12.4" x 23.70" (6.4 x 31.4 x 60.1 cm)
Weight	22.6 lbs (10.3 kg)	14.8 lbs (6.7 kg)
Typical (Max) Power [1]	147 W (515 W)	44 W (137 W)
User Serviceable Fans	Yes (8 Fan Modules)	Yes (4 Fan Modules)
Chassis Support	DCS-7808 (Slot 6)	DCS-7804 (Slot 6)

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

Supervisor Module	DCS-7800-SUP1S	DCS-7816-SUP1S
Processor	1.9 GHz, Six-Core x86 64-bit	2.0 GHz, Eight-Core x86 64-bit
System Memory	64 GB	64 GB
Flash Storage Memory	4 GB	4 GB
RS-232 Serial Ports	1	1
Management Ports	1 (RJ-45) + 1 (SFP 1G)	1 (RJ-45) + 1 (SFP 1G)
USB 2.0 Interface	2	2
SSD Storage	256 GB	256 GB
Default Secure Boot	Yes	Yes
Size (WxHxD)	9.0 " x 2.1" x 17.25" (22.8 x 5.3 x 43.8 cm)	9.0 " x 2.1" x 17.25" (22.8 x 5.3 x 43.8 cm)
Weight	6.3 lbs (2.9 kg)	6.3 lbs (2.9 kg)
Typical (Max) Power *	61 W (72 W)	71 W (78 W)
Chassis Support	DCS-7808, DCS-7804	DCS-7816L, DCS-7812

Power Supply	PWR-D1-3041-AC	PWR-D2-3041-DC	PWR-D4-3041-AC
Input Circuit (Max)	2x - 200-240VAC, 16A	2x -48 to -60VDC, 70A	2x 200-277VAC or 2x 240-380VDC, 16A
Input Frequency	50/60Hz	N/A	50/60Hz (AC)
Output Power	3000W	3000W	3000W
Input Connector	2x SAF-D-GRID 400	AWG#1 Max Each Lug 2 x M6 Studs	2x SAF-D-GRID 400
Efficiency	94.5% Platinum	94%	94.5% Platinum
Size (WxHxD)	2.7" x 1.6" x 23.6" (6.8 x 40.6 x 60.0cm)	2.7" x 1.6" x 23.6" (6.8 x 40.6 x 60.0cm)	2.7" x 1.6" x 23.6" (6.8 x 40.6 x 60.0cm)
Weight	8lbs (3.6kg)	8lbs (3.6kg)	8lbs (3.6kg)
Chassis Support	DCS-7816L, DCS-7812, DCS-7808, DCS-7804		

7800R Series	7800R4C-36PE
Ports	36 x OSFP800
Max 100G-1 [1]	288
Max 400G-4 [1]	72
Max 800G-8 [1]	36
Max Total Interfaces [2]	288
Throughput (FDX)	28.8 Tbps (57.6 Tbps)
Encryption	No
Port Buffer	32 GB
Weight	26.7 lbs (12.1 kg)
Typical (Max) Power [3]	904 W (1088 W)
Dimensions (WxHxD)	18.9" x 2.1" x 17.8" (48.1 x 5.4 x 45.2 cm)
Chassis Support	DCS-7816L, DCS-7812, DCS-7808, DCS-7804

1. Maximum port numbers are uni-dimensional, may require the use of break-outs and are subject to transceiver/cable capabilities
2. Where supported by EOS, each system supports a maximum number of interfaces. Certain configurations may impose restrictions on which physical ports can be used
3. Typical power consumption measured at 25C ambient with 50% load on all ports. Excludes optics power as this is a significant variable for 100G, 400G and 800G

Standards Compliance

EMC	FCC A ICES-003 Issue 7 EN 55032:2015 EN IEC 61000-3-2:2019 EN 61000-3-3 KS C 9832 VCCI-CISPR 32:2016 AS/NZS CISPR 32:2015 +A1 2020 EN 300 386 TEC/SD/DD/EMC-221 CNS 15936 BS EN 55032:2015+A11:2020 BS EN IEC 61000-3-2 BS EN 61000-3-3
Immunity	EN 55035:2017+A11:2020 EN 300 386 KS C9835 BS EN 55035:2017+A11:2020
Safety	EN 62368-1:2020+A11:2020 EN 62368-1:2014+A11:2017 IEC 62368-1: 2018 Korea KC Safety KC 62368-1 (2021-08) CSA/UL 62368-1:2019 NOM 019-SCFI-1998 CNS 15598-1 AS/NZS 62368.1:2022
Certifications	BSMI (Taiwan) FCC Class A (United States) ICES-003 (Canada) CE (European Union) KCC (South Korea) NRTL (North America) RCM (Australia / New Zealand) UKCA (United Kingdom) VCCI (Japan) TEC (India) ANATEL (Brazil) ICASA (South Africa) NOM Equivalency (Mexico)
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

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 90%
Operating Altitude	0 to 10,000 ft, (0-3,000m)

System Bundles

DCS-7804R4-BNDS-U [1]	Arista 7804R4 Chassis bundle. Includes 7804 chassis, 6x3kW D1 AC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1S (Secure Boot Enabled, Extended Rack Kit)
DCS-7804R4-BNDS-U-DC [1]	Arista 7804R4 Chassis bundle. Includes 7804 chassis, 6x3kW D2 DC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1S (Secure Boot Enabled, Extended Rack Kit)
DCS-7808R4-BNDS-U	Arista 7808R4 Chassis bundle. Includes 7808 chassis, 8x3kW D1 AC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1S (Secure Boot Enabled, Extended Rack Kit)
DCS-7808R4-BNDS-U-DC	Arista 7808R4 Chassis bundle. Includes 7808 chassis, 8x3kW D2 DC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1S (Secure Boot Enabled, Extended Rack Kit)
DCS-7812R4-BNDS-U	Arista 7812R4 Chassis bundle. Includes 7812 chassis, 10x3kW D1 AC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1S (Secure Boot Enabled, Extended Rack Kit)
DCS-7812R4-BNDS-U-DC	Arista 7812R4 Chassis bundle. Includes 7812 chassis, 10x3kW D2 DC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1S (Secure Boot Enabled, Extended Rack Kit)
DCS-7816LR4-BNDS-U [1]	Arista 7816LR4 Chassis bundle. Includes 7816L chassis, 12x3kW D1 AC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1S (Secure Boot Enabled, Extended Rack Kit)
DCS-7816LR4-BNDS-U-DC [1]	Arista 7816LR4 Chassis bundle. Includes 7816L chassis, 12x3kW D2 DC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1S (Secure Boot Enabled, Extended Rack Kit)
DCS-7804R4-BNDA-U [1]	Arista 7804R4 Chassis bundle. Includes 7804 chassis, 6x3kW D1 AC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1A (Extended Rack Kit)
DCS-7804R4-BNDA-U-DC [1]	Arista 7804R4 Chassis bundle. Includes 7804 chassis, 6x3kW D2 DC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1A (Extended Rack Kit)
DCS-7808R4-BNDA-U	Arista 7808R4 Chassis bundle. Includes 7808 chassis, 8x3kW D1 AC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1A (Extended Rack Kit)
DCS-7808R4-BNDA-U-DC	Arista 7808R4 Chassis bundle. Includes 7808 chassis, 8x3kW D2 DC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1A (Extended Rack Kit)
DCS-7812R4-BNDA-U	Arista 7812R4 Chassis bundle. Includes 7812 chassis, 10x3kW D1 AC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1A (Extended Rack Kit)
DCS-7812R4-BNDA-U-DC	Arista 7812R4 Chassis bundle. Includes 7812 chassis, 10x3kW D2 DC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1A (Extended Rack Kit)
DCS-7816LR4-BNDA-U [1]	Arista 7816LR4 Chassis bundle. Includes 7816L chassis, 12x3kW D1 AC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1A (Extended Rack Kit)
DCS-7816LR4-BNDA-U-DC [1]	Arista 7816LR4 Chassis bundle. Includes 7816L chassis, 12x3kW D2 DC PS, 5xFM-R4, 1xFCM, 1x7800-Sup1A (Extended Rack Kit)

Line Cards

DCS-7800R4C-36PE-LC	7800R4 Series 36 port 800GbE OSFP line card for compute clusters (spare)
DCS-7800R4C-36PE-LC#	7800R4 Series 36 port 800GbE OSFP line card for compute clusters (ships in chassis)

1. Available in mid-2025

Optional Components and Spares

DCS-7804-CH	Arista 7804 chassis, 2 Supervisor slots, 4 line card slots, 6 Fabric Module slots, AC or DC option
DCS-7804R4-FM [1]	7800R4 Series Fabric Module for 7804 Chassis, required for fabric slots 1-5
DCS-7804-FCM [1]	7800 Series Fabric Cooling Module for 7804 Chassis, required for fabric slot 6
DCS-7808-CH	Arista 7808 chassis, 2 Supervisor slots, 8 line card slots, 6 Fabric Module slots, AC or DC option
DCS-7808R4-FM	7800R4 Series Fabric Module for 7808 Chassis, required for fabric slots 1-5
DCS-7808-FCM	7800 Series Fabric Cooling Module for 7808 Chassis, required for fabric slot 6
DCS-7812-CH	Arista 7812 chassis, 2 Supervisor slots, 12 line card slots, 6 Fabric Module slots, AC or DC option
DCS-7812R4-FM	7800R4 Series Fabric Module for 7812 Chassis, required for fabric slots 1-5
DCS-7812-FCM	7800 Series Fabric Cooling Module for 7812 Chassis, required for fabric slot 6
DCS-7816L-CH	Arista 7816L chassis, 2 Supervisor slots, 16 line card slots, 6 Fabric Module slots, AC or DC option
DCS-7816LR4-FM [1]	7800R4 Series Fabric Module for 7816L Chassis, required for fabric slots 1-5
DCS-7816L-FCM [1]	7800 Series Fabric Cooling Module for 7816L Chassis, required for fabric slot 6
DCS-7800-SUP1S	Supervisor1S module for 7800 series - 7808 and 7804 chassis (Secure Boot Enabled)
DCS-7816-SUP1S	Supervisor1S module for 7800 series - 7816L, 7816 and 7812 chassis (Secure Boot Enabled)
DCS-7800-SUP1A	Supervisor1A module for 7800 series - 7808 and 7804 chassis
DCS-7816-SUP	Supervisor1 module for 7800 series - 7816L, 7816 and 7812 chassis
PWR-D1-3041-AC-BLUE	Arista PSU, ATS, 1RU, AC, 3KW, BLUE
PWR-D2-3041-DC-BLUE	Arista PSU, DUAL INPUT, 1RU, DC, 3KW, BLUE
PWR-D4-3041-AC-BLUE	Arista PSU, ATS-HVAC-HVDC, 1RU, AC, 3KW, BLUE (Worldwide with 277VAC/380VDC support)

1. Available in mid-2025

Optional Components and Spares

FAN-7800-HS	Spare fan module (for use in 7800-FCM modules and 7800R4-FM modules)
DCS-7800-SCVR	Blank cover for 7800 series supervisor slot
DCS-7800-PCVR	Blank cover for 7800 series power supply slot
DCS-7800-LCVR	Blank cover for 7800 series line card slot
KIT-7804	Spare accessory kit for Arista 7808. 4 post mount. (16x SAF-D-C20, 4m) (Extended Depth Rails)
KIT-7808	Spare accessory kit for Arista 7808. 4 post mount. (16x SAF-D-C20, 4m) (Extended Depth Rails)
KIT-7812	Spare accessory kit for Arista 7812. 4 post mount. (20x SAF-D-C20, 4m) (Extended Depth Rails)
KIT-7816	Spare accessory kit for Arista 7816. 4 post mount. (24x SAF-D-C20, 4m) (Extended Depth Rails)
KIT-7800-RK	Spare 4 post mounting kit for Arista 7800 series (Standard Depth [23.9 to 33.65 in / 60.6 to 85.5 cm])
KIT-7800-RK#	Configurable 4 post mounting kit for Arista 7800 series (Standard Depth [23.9 to 33.65 in / 60.6 to 85.5 cm])
KIT-7800-RK-L	Spare 4 post mounting kit for Arista 7800 series (Extended Depth [32.37 to 42.12 in / 82.3 to 107 cm])
CAB-AC-20A-SG-C20-1M	Power cord, SAF-D-GRID to C20 (1m)
CAB-AC-20A-SG-C20-2M	Power cord, SAF-D-GRID to C20 (2m)
CAB-AC-20A-SG-C20-3M	Power cord, SAF-D-GRID to C20 (3m)
CAB-AC-20A-SG-C20-4M	Power cord, SAF-D-GRID to C20 (4m)

Warranty

The Arista 7800R4 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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