

Arista

Arista DCS-7160-32CQ-F

Datasheet

Product Overview

- The Arista 7160 Series stands as a core high-performance line within the renowned Arista 7000 Data Center Switch portfolio.
- Designed for dynamic data centers, it targets cloud providers, enterprise IT, and managed service partners needing dense, scalable switching.
- Key hardware highlights include 32 x 100GbE QSFP100 ports, 6.4 Tbps switching capacity, and efficient L2/L3 forwarding.
- Differentiators include a customizable switch ASIC for flexible packet handling and software-driven upgrades, plus support for multiple port speeds.
- Hot-swappable redundancy, programmable resources, and seamless Arista EOS integration lower management costs and boost deployment agility.
- The 7160-32CQ-F empowers global data centers and operators to meet growing bandwidth demands with flexibility, reliability, and top-tier performance.

Product Highlights

- **Ultra-High Density 100GbE:** Supports up to 32×100GbE QSFP100 ports for massive scale, ideal for next-gen spine and core deployments.
- **Performance and Throughput:** Delivers up to 6.4 Tbps switching and 2.4 Bpps forwarding rates for low-latency, wire-speed operations.
- **Advanced Virtualization Support:** Features CloudVision, VXLAN routing, and VM Tracer for seamless cloud integration and automation.
- **Reliable Efficiency:** Hot-swappable power and fans, programmable pipelines, and 94% power efficiency ensure robust data center operations.

Detailed Features



Arista DCS-7160-32CQ-F

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Component	Specification
Ports	32 × 100 Gigabit Ethernet QSFP100
Switching Capacity	6.4 Tbps
Forwarding Rate	2.4 Bpps
Memory	8 GB DRAM, 4 GB Flash
Airflow	Front-to-Back



Unified EOS Software Architecture

The 7160 Series runs a standardized, modular EOS system, simplifying management with the same binary across the entire Arista switch range. State sharing uses an in-memory database for resilient, seamless upgrades and high availability.

Programmable Cloud-Ready Network

Arista SDCN combines automation, virtualization, programmability, and cost-effectiveness. Universal Cloud Network and Cloud Control features enable scalable MLAG, ECMP, VXLAN, and network-wide monitoring for enterprise and service provider data centers.

Intelligent Scaling and Flexibility

Leveraging MLAG and ECMP, the 7160 enables high-availability, fully non-blocking two-tier leaf-spine architectures. Open standards and extensive protocol support deliver predictable performance at massive scale, ready for overlay and VXLAN integration.

Innovative AlgoMatch Technology

AlgoMatch blends advanced software with flexible hardware, providing high-performance, low-power policy rule matching for IPv4/IPv6, access control, flow visibility, and custom packet handling, all without resource depletion or performance drop.

Advanced Cloud Networking Features

Arista 7160 includes advanced automation, burst monitoring, timestamping, and virtualization features. EOS automates complex workflows, reduces downtime, and supports turnkey integration with CloudVision and industry orchestration stacks.

Flexible Forwarding Profiles

The 7160 allows resource allocation by forwarding profile, optimizing table sizes for diverse use-cases. This ensures that each deployment type L2, L3, or virtualized achieves peak scalability and best feature fit.

Upgradable Programmable Pipeline

A programmable pipeline enables rapid feature additions, new protocol support, and encapsulation formats through simple software updates cutting lifecycle costs and accelerating deployment.

Seamless Virtualization Support

The 7160 supports VM Tracer and hardware-based VXLAN gateway, bridging and routing virtual machines with non-virtual appliances at wire speed. This ensures easy extension of classic L2/3 to next-generation overlay environments.

Technical Specifications

Product Specifications

Feature	Value
Network Ports	32 x 100 Gigabit Ethernet QSFP100
Management Ports	1 x Gigabit Management RJ45
Management Ports (Serial)	1 x RS-232 RJ45
Management Ports (USB)	1 x USB Type A
CPU	Quad-Core x86
DRAM	8 GB
Flash	4 GB
VLAN IDs Supported	4096
Packet Buffer	24 MB
Packet Buffer Entries	128,000 entries
Airflow	Front-to-Back
Fan Modules Included	4 x FAN-7000-F



Feature	Value
Power Supplies Included	2 x PWR-500AC-F
Switching Capacity	6.4 Tbps
Forwarding Rate	2.4 Bpps
MAC Address Table Size	128,000
Latency	From 2 μ s
Max IPv4 LPM Routes	Other details not specified
VLANs Supported	4096
Multicast Routes	6.4 Tbps
Part Number	DCS-7160-32CQ-F

Product Comparison

Feature	Arista DCS-7160-32CQ-F	Arista DCS-7170-32CD-R	Arista DCS-7020SR-32C2-F
Fixed Ports	32 × 100GbE QSFP100	32 × 100GbE QSFP100	32 × 100GbE QSFP100
Switching Capacity	6.4 Tbps	6.4 Tbps	6.4 Tbps
Forwarding Rate	2.4 Bpps	4.8 Bpps	2.4 Bpps
MAC Address Table	128,000 entries	128,000 entries	128,000 entries
CPU	Quad-Core x86, 8 GB DRAM, 4 GB Flash	Quad-Core x86, 8 GB DRAM, 4 GB Flash	Quad-Core x86, 8 GB DRAM, 4 GB Flash
Fan/Power Redundancy	4 hot-swappable fans, 2 redundant PSUs	Hot-swappable fans, redundant PSUs	Hot-swappable fans, redundant PSUs
Virtualization	VXLAN, CloudVision, ZTP	VXLAN, CloudVision, ZTP	VXLAN, ZTP
Ideal Scenario	High-density spine/leaf	High-density core/spine, enhanced telemetry	Spine/leaf with high power efficiency



Accessories

Category	Accessories
Included Accessories	- 2 x PWR-500AC-F Power Supply - 4 x FAN-7000-F Fan Module - Rack Mount Kit
Optional Accessories	- QSFP100 Transceiver Module - Extended License - Advanced Management Cable



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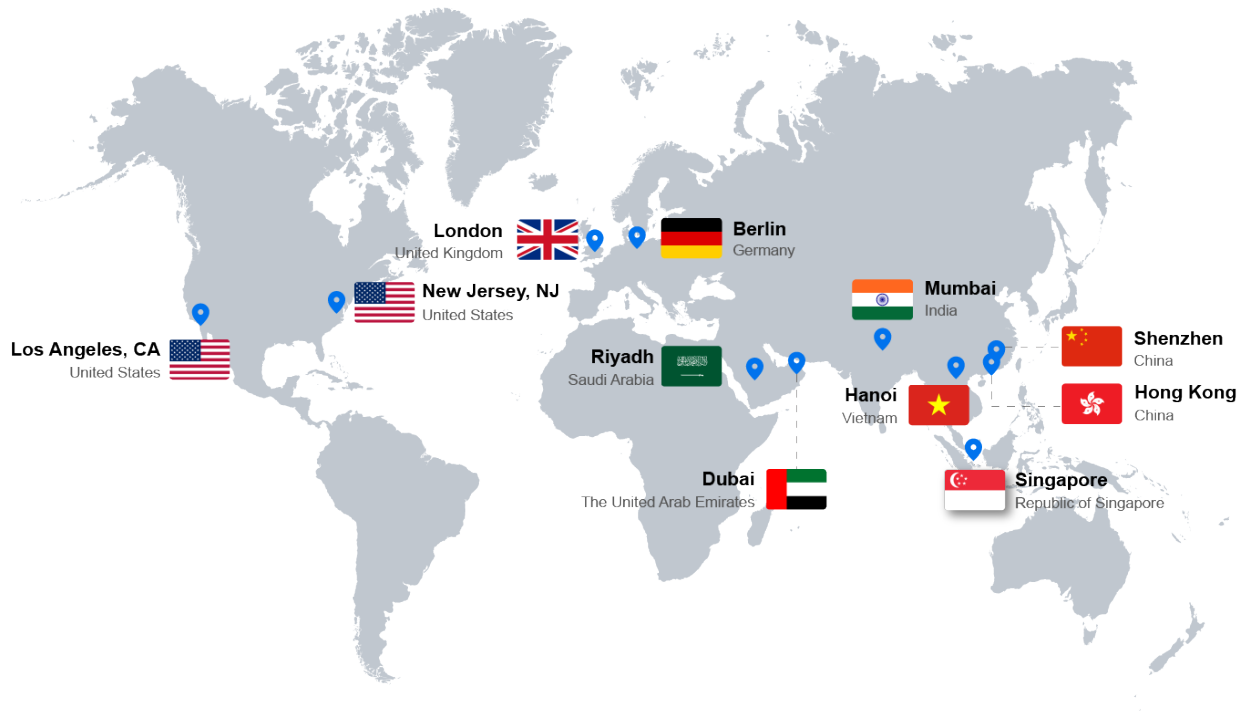
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References

[1] Arista Networks. (2023). 7160 Series Data Center Switches Datasheet. Retrieved from <https://www.arista.com/assets/data/pdf/Datasheets/7160-Datasheet.pdf>