

Arista

Arista DCS-7160-32CQ-R

Datasheet

Product Overview

- The Arista 7160 Series is a flagship line within the Arista 7000 family, designed for demanding data center environments.
- These switches are ideal for modern cloud networks, serving large-scale data centers, enterprise IT, and high-performance computing.
- Key specifications include up to 32 wire-speed 100GbE ports, 6.4Tbps switching capacity, and advanced programmable architecture.
- The 7160 Series features dynamic packet parsing, advanced traffic management, and highly customizable L2/L3 resources.
- Simple software updates let users reconfigure forwarding and monitoring, reducing network downtime and complexity.
- Optimized for both leaf/spine and traditional designs, it empowers seamless cloud adoption, supporting big data and virtualization at scale.

Product Highlights

- **High Density 100G Switch:** Up to 32 wire-speed 100GbE QSFP100 ports enable efficient spine-leaf connectivity for data centers of all sizes.
- **Extreme Performance:** Delivers 6.4Tbps switching capacity and 2.4Bpps forwarding rate for the highest throughput requirements in demanding environments.
- **Advanced Virtualization:** Supports CloudVision, VXLAN Routing, sFlow, and Zero Touch Provisioning for next-generation cloud flexibility.
- **Flexible Hardware Design:** Features redundant hot-swappable power and cooling, tool-less rails, and airflow options for hassle-free deployment and maintenance.

Detailed Features



Arista DCS-7160-32CQ-R

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



Unified Operating System

Arista EOS ensures all 7160 Series switches operate under a single, modular software platform. This enables seamless integration and simplifies administrative tasks across distributed infrastructures. EOS's separation of switch state from protocol logic supports stateful upgrades and self-healing resilience with zero packet loss during failover.

Software-Defined Cloud Networking

The 7160 Series incorporates Aristas SDCN architecture, promoting automation, self-service provisioning, and scalable economics. Network virtualization, custom programmability, and streamlined designs reduce both CapEx and OpEx while maximizing agility for service providers and large enterprises.

Industry-Leading Scalability

Built for modern data centers, Aristas advanced Multi-Chassis Link Aggregation (MLAG), Equal Cost Multi-Path (ECMP) routing, and VXLAN Overlay technologies allow highly resilient, large-scale, low-latency network fabrics. Flexible two-tier architectures scale non-blocking connectivity to support tens of thousands of hosts.

AlgoMatch Technology

Arista's unique AlgoMatch combines programmable memory with advanced algorithms for efficient access control, policy-based forwarding, and high-performance telemetry. It outperforms legacy options by enabling flexible packet matching, high policy scale, and consistent network-wide visibility, at reduced power and cost.

Agile Traffic, Monitoring & Automation

The 7160 empowers data center agility through precise traffic control, LANZ burst/flow monitoring, and comprehensive automation (CloudVision, AEM). This ensures efficient resource provisioning, improved SLAs, and reduced human error, helping IT teams maintain uptime and consistent network behavior.

Flexible Forwarding Profiles

7160 Series supports dynamically assignable forwarding profiles. This lets organizations fine-tune forwarding tables to match target applications, meaning you can efficiently allocate memory resources for MAC, route, or ACL scaling for your specific workload requirements.

Programmable Pipeline Architecture

With a fully programmable packet pipeline, the 7160 adapts to emerging protocols (e.g., VXLAN) and encapsulation via simple software updates. No hardware changes or costly upgrades are needed, guaranteeing investment protection and easy feature expansion over the product lifecycle.

Next-Gen Virtualization & Design Flexibility

Arista VM Tracer and native VXLAN gateway services enable seamless virtualized deployments. The 7160 integrates with both virtual and traditional networks, supporting workload mobility, L2/L3 bridging, and rapid migration to high-speed Ethernet with mix-and-match SFP/QSFP modules.

Technical Specifications

Product Specifications

Feature	Value
Switch Version	Arista EOS
Network Ports	32× 100 Gigabit Ethernet QSFP100
Management Ports	1× 1 Gigabit Management RJ45
Management Ports (Serial)	1× RS-232 RJ45
Management Ports (USB)	1× USB Type A
System Memory (DRAM)	8 GB
System Memory (Flash)	4 GB
CPU Model	Quad-Core x86
Switching Capacity	6.4 Tbps
Forwarding Rate	2.4 Bpps
MAC Address Table Size	128,000



Feature	Value
Max IPv4 Host Routes	64,000
Multicast Routes	32,000
VLANs Supported	4096
Packet Buffer	24 MB
Latency	From 2 μ s
Airflow Direction	Back-to-Front
Fan Modules Included	4 $\times$ FAN-7000-R
Power Supplies Included	2 $\times$ PWR-500AC-R
Part Number	DCS-7160-32CQ-R

Product Comparison

Feature	Arista DCS-7160-32CQ-R	NVIDIA Mellanox MSN4600-CS2R	Arista DCS-7280QR-C72#
Switching Capacity	6.4 Tbps	12.8 Tbps	5.76 Tbps
Forwarding Rate	2.4 Bpps	8.3 Bpps	4.3 Bpps
100G Ports	32 $\times$ QSFP100	32 $\times$ QSFP28	72 $\times$ QSFP28 (40/100G)
Management Ports	1GE Mgmt RJ45, RS-232 RJ45, USB A	2 $\times$ 1GE RJ45, 1 $\times$ RS232 RJ45, USB	2 $\times$ 10/100/1000 Mgmt, 1 $\times$ USB, 1 $\times$ RJ-45 serial
System Memory	8 GB DRAM, 4 GB Flash	16 GB DRAM, 64 GB SSD	8 GB DRAM, 4 GB Flash
Redundant Power	2 $\times$ PWR-500AC-R	2 $\times$ Hot-swappable	2 $\times$ Hot-swappable
Airflow	Back-to-Front	Back-to-Front or Front-to-Back	Front-to-Back or Back-to-Front
Layer 2/3 Support	Yes	Yes	Yes
Advanced Virtualization	CloudVision, VXLAN, ZTP	VXLAN, MLAG, RoCE	CloudVision, VXLAN, ZTP
Programmable Pipeline	Yes	Yes	No



Accessories

Category	Accessories
Included Accessories	- 2 × PWR-500AC-R Power Supplies - 4 × FAN-7000-R Fan Modules - Mounting Brackets
Optional Accessories	- QSFP100 Transceiver Modules - Advanced Licenses - Console Cables



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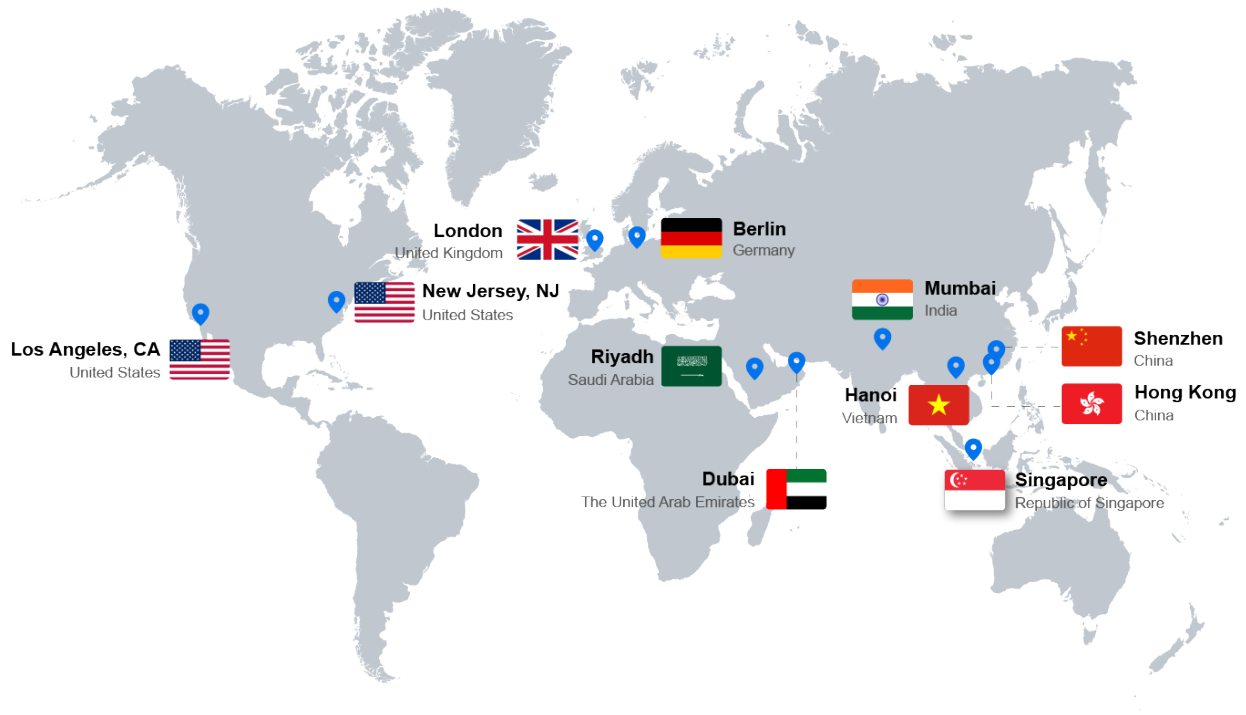
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References

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