

Arista

Arista DCS-7020SR-32C2-F

Datasheet



Product Overview

- The Arista 7020R Series is a high-performance switch line engineered for dense, modern data centers across regions.
- Ideal for cloud providers, enterprises, and service providers, it suits environments demanding non-blocking, low-latency connectivity.
- Key hardware features include 32 x 10G SFP+ ports, 2 x 100G QSFP100 uplinks, and up to 1.04 Tbps switching capacity.
- With deep packet buffers and advanced L2/L3 switching, the 7020R stands out for quality of service, automation, and security features.
- Unified Arista EOS ensures seamless management, reducing operational overhead and simplifying deployment in mixed environments.
- This switch empowers scalable, flexible deployment at the network edge or storage, optimizing performance for big data, virtualization, and streaming applications.

Product Highlights

- **Unified EOS Software:** Arista 7020R Series runs the consistent EOS platform, streamlining operations across all Arista switches.
- **Advanced Monitoring & Automation:** Supports Zero Touch Provisioning, LANZ, VMTracer, and onboard Linux tools for efficient automation.
- **High Availability Architecture:** Features hot-swappable power and fans, N+1 redundancy, and live software patching for reliability.
- **Scalable Data Center Performance:** Delivers line-rate switching at L2/L3 with flexible multipath designs supporting large, fast networks.

Detailed Features



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Component	Specification
Network Ports	32 x 10 Gigabit Ethernet SFP+
Uplink Ports	2 x 100 Gigabit QSFP100
Switching Capacity	1.04 Tbps
MAC Address Table Size	256,000
Latency	From 3.8 microseconds



Consistent EOS Operating System

The 7020R Series uses the same Arista EOS as the entire portfolio, unifying configuration and management. Its modular Linux-based design separates switch state from applications, allowing live software updates and resilient fault repair. This consistency eliminates complicated workflows in diverse data center deployments and supports advanced features natively.

High Reliability Design

Engineered for continuous operation, the 7020R implements hot-swappable power supplies and fans with N+1 redundancy and system-wide monitoring. Color-coded components enhance serviceability. Features like live software patching, stateful fault repair, 32-port LAG, multi-chassis LAG, and 128-way ECMP boost network availability and eliminate single points of failure.

Scalable, Efficient Switching

Achieving line-rate switching at L2 and L3, the 7020R enables faster and simpler two-tier network models. Used together with other Arista switches, it supports scalability for over 80,000 servers with predictable, low-latency application performance. Flexible open-standards support and advanced multipathing foster network-wide virtualization and design freedom.

Software Defined Cloud Networking

The 7020R supports Aristas Software Defined Cloud Networking, merging automation with cost-effective linear scaling. It offers network virtualization, custom programmability, and simplified architectures, supporting both enterprise and service provider clouds. Advanced event management tools automate network behaviors, improving agility and reducing operational effort.

Flexible Scale-Out Network Design

The platform supports flexible scaling, from small start points to 128-way architectures without major reconfiguration. It provides comprehensive L2/L3 resources, VXLAN integration, VOQ buffers, and versatile optics for multi-speed access. Embedded monitoring tools and sFlow enable visibility for capacity planning and application performance.

Integrated CloudVision Platform

Arista CloudVision extends orchestration and workflow automation across the network. Adopting a publish-subscribe model, it synchronizes state, topology, and monitoring, enabling enterprises to achieve cloud-class automation without custom development. This centralized approach makes provisioning and expansion efficient.

Zero Touch Provisioning and Monitoring

Features like ZTP and VMTracer adaptive VLANs automate network bring-up and virtual server integration. The platform connects directly with VMware, OpenStack, and Microsoft OMI, offering policy portability, persistent monitoring, and rapid issue resolution at VM-level. Real-time event-driven automation streamlines network and server operations.

Deterministic Performance and Virtualization

The switch's deep VOQ buffers nearly eliminate packet drops in congested scenarios. Advanced traffic scheduling ensures fair bandwidth allocation across all queues. It supports wire-speed VXLAN gateway and tight orchestration tool integration, enabling seamless operation in next-gen virtualized data centers and extending L2 domains.

Technical Specifications

Product Specifications

Feature	Value
Network Ports	32 x 10 Gigabit Ethernet SFP+
Uplink Ports	2 x 100 Gigabit QSFP100
Management Ports	1 x USB, 1 x Gigabit Ethernet Management, 1 x RJ45 RS-232 Serial Port
Fan Modules Airflow Direction	2 x (N+1) Front-to-Rear Airflow (FAN-7001C-F/R)
Power Supplies Included	2 x (1+1 redundant) - PWR-400AC/PWR-400-DC (not included)
Switching Capacity	300 Mpps
Throughput	1.04 Tbps
MAC Address Table Size	256,000



Feature	Value
Latency	From 3.8 microseconds
Rack Mounts	Rails are not included
Part Number	DCS-7020SR-32C2-F

Product Comparison

Feature	Arista DCS-7020SR-32C2-F	Arista DCS-7020SR-24C2-F	Arista DCS-7010T-48-DC-F
Switching Capacity	1.04 Tbps	720 Gbps	1.04 Tbps
Forwarding Rate	300 Mpps	216 Mpps	773.4 Mpps
10G SFP+ Ports	32	24	0
100G QSFP+ Uplinks	2	2	0
1G/10G Copper Ports	0	0	48 x 1GBase-T
MAC Address Table	256,000	256,000	128,000
Hot-Swap Power & Fans	Supported	Supported	Supported
Layer 3 Support	Advanced L2/L3	Advanced L2/L3	Advanced L2/L3
Stacking	Not Supported	Not Supported	Not Supported
Management	Arista EOS, ZTP, CloudVision	Arista EOS, ZTP, CloudVision	Arista EOS, ZTP, CloudVision
Application Scenario	High-density 10G/100G core/aggregation	Mid-density 10G/100G aggregation	Access layer, high-density 1G copper

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Basic Mounting Kit - Quick Installation Guide



Category	Accessories
Optional Accessories	<ul style="list-style-type: none">- SFP+ Optical Transceivers- 100G QSFP Optics- Redundant Power Supply Modules



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References

[1] Arista Networks. (2023). 7020R Series Datasheet (V1.0). Retrieved from https://www.arista.com/assets/data/pdf/Datasheets/7020R-48_Datasheet.pdf