

Arista

Arista DCS-7150S-52-CL-R

Datasheet



Product Overview

- Arista 7150 Series sets the standard for ultra low latency, wire-speed Layer 2/3/4 switching in a compact 1RU form factor.
- Designed for demanding environments like financial ECNs, high performance computing clusters, and cloud data centers.
- Delivers up to 1.28 Tbps switching, supports up to 52x10GbE ports, and features industry-leading deterministic latency starting at 350ns.
- Unique capabilities like built-in advanced monitoring, precision LANZ Microburst Analysis, and accurate PTP clock add operational visibility.
- Simplified deployment is provided by features like CloudVision, Zero Touch Provisioning, and flexible airflow or redundant hot-swappable components.
- Optimized for environments where assured, consistent performance and high availability are crucial, the 7150 Series empowers always-on business-critical networks.

Product Highlights

- **Ultra Low Latency Switching:** Delivers consistent low latency from 350 nanoseconds for L2/L3 forwarding, minimizing delay in time-sensitive environments.
- **Scalable High-Density Design:** Offers 52x 1/10GbE SFP+ ports, supporting up to 1.28 Tbps switching and 960 Mpps forwarding rate.
- **Advanced Visibility & Analytics:** Built-in LANZ Microburst Analysis, DANZ advanced mirroring, sFlow, and CloudVision monitoring tools enable proactive management.
- **Resilient Network Operation:** Modular Arista EOS OS, 1+1 hot-swappable power, N+1 redundant fans, and front-to-rear or rear-to-front airflow design.

Detailed Features



Arista DCS-7150S-52-CL-R

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Component	Specification
Switch Ports	52 × 10 Gigabit Ethernet SFP+
Switching Capacity	1.04 Tbps
Forwarding Rate	780 Mpps
Redundant Power	2 × PWR-460AC-R (1+1 redundant)
Airflow	Back-to-Front



Unified EOS Platform

Runs Arista EOS, a modular, extensible system across all Arista switches, streamlining network administration, patching, and updates. Benefits include consistent CLI, API, and automation support for efficient multi-device management.

State Sharing Architecture

Arista EOS separates switch state from protocol and application processing with in-memory state sharing. This approach enables reliable in-service software upgrades, fast recovery, and consistent, predictable switch operation under varying workloads.

Linux-Based Flexibility

EOS is built atop a standard Linux kernel with each process running in its own protected memory space. This increases network security and stability, while providing access to native Linux tools for advanced monitoring and custom scripting by IT teams.

In-Service Software Upgrade & Self-Healing

Thanks to multi-process EOS architecture, the switch supports stateful updates and fault recovery without disrupting critical services. This feature keeps mission-critical environments running with minimal risk and downtime.

Integrated Advanced Monitoring

Arista 7150 leverages tools like LANZ for microburst detection, sFlow for traffic visibility, and CloudVision for centralized monitoring helping administrators spot and correct issues proactively.

Automation and Zero Touch Provisioning

With Zero Touch Provisioning (ZTP), VMTracer, and Linux scripting capability, deployment, expansion, or disaster recovery processes are automated, reducing manual intervention and errors.

Performance Virtualization

7150 switches support user application hosting in a VM on the switch, leveraging powerful x86 CPU and flexible memory. This enables direct deployment of custom analytics or management tools close to network data.

Green and Sustainable Operations

The 7150 Series combines <3.5W per port power draw with full compliance to latest ROHS standards (in 7150SC), helping organizations meet regulatory and efficiency demands without sacrificing performance.

Technical Specifications

Product Specifications

Feature	Value
Network Ports	52 × 10 Gigabit Ethernet SFP+
Management Ports	1 × 1 Gigabit Management RJ45, 1 × RS-232 Serial RJ45, 1 × USB
CPU	Dual-core x86
SFP Modules	Not Included
VLAN IDs	4096
Packet Buffer	9.5 MB
Airflow Direction	Back-to-Front Airflow
Fan Module Options	4 × FAN-7000-R (N+1 redundant) Fan Modules included
Power Supplies Included	2 × PWR-460AC-R (1+1 redundant)
Switching Capacity	1.04 Tbps
Forwarding Rate	780 Mpps
MAC Address Table Size	64,000



Feature	Value
Latency	380 ns
DRAM	4 GB DRAM
Flash	2 GB Flash
Part Number	DCS-7150S-52-CL-R

Product Comparison

Feature	Arista DCS-7150S-52-CL-R	Arista DCS-7280PR3-24-M#	Arista DCS-7010T-48-DC-F
Switch Ports	52 × 10GbE SFP+	24 × 100GbE QSFP28	48 × 1GbE RJ45 + 4 × 10GbE SFP+
Switching Capacity	1.04 Tbps	4.8 Tbps	176 Gbps
Forwarding Rate	780 Mpps	3.6 Bpps	131 Mpps
Redundant Power	1+1 Yes	2 (hot-swappable)	2 (hot-swappable)
Fan Redundancy	N+1 (hot-swappable)	N+1 (hot-swappable)	Yes (hot-swappable)
Latency	380 ns	Sub-microsecond	<3 μs
Management Features	CloudVision, ZTP, sFlow	CloudVision, ZTP, sFlow	ZTP, SNMP, Web UI
MAC Table Size	64,000	288,000	32,000
Application Scenario	Low-latency data center/ HPC	Core data center, large-scale cloud	Edge or campus aggregation

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - 2 × PWR-460AC-R Power Supplies - 4 × FAN-7000-R Fan Modules - Mounting Brackets
Optional Accessories	<ul style="list-style-type: none"> - SFP+ Transceiver - USB Console Cable - Advanced SSD Module



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References

[1] Arista Networks. (2023). 7150 Series Switches Datasheet. Retrieved from https://www.arista.com/assets/data/pdf/Datasheets/7150S_Datasheet.pdf