Arista

Arista DCS-7150S-24-R

Datasheet

Product Overview

- The Arista 7150 Series delivers high-performance, ultra low latency network switching for mission-critical environments.

- Purpose-built for demanding financial ECNs, HPC clusters, and cloud data centers requiring deterministic latency and advanced control.

- With 24 SFP+ 1/10GbE ports, up to 480Gbps switching capacity, and 360Mpps forwarding rate, it ensures reliable speed and throughput.

- Key features include latency from just 350ns, precision monitoring tools, redundant hot-swappable fans, and advanced traffic analysis.

- CloudVision and zero-touch provisioning add simplicity to both deployment and ongoing network management, reducing operational challenges.

- The Arista 7150S-24-R keeps your data moving at lightning speed, supporting dynamic digital businesses with maximum uptime and efficiency.

Product Highlights

- **Wire-Speed Performance:** Delivers up to 1.28 Tbps switching capacity and up to 960 Mpps forwarding rate for demanding workloads.

- **Ultra Low Latency Networking:** Offers consistent deterministic latency from 350 nanoseconds for both Layer 2 and Layer 3 operations.

- **Advanced Provisioning & Visibility:** Features CloudVision, LANZ Microburst Analysis, DANZ, sFlow, and zero-touch provisioning for optimized network insight.

- **Resilient, Efficient Design:** Supports 1+1 redundant power, N+1 hot-swappable fans, low power draw, and Linux-based extensibility with flexible management.

Detailed Features

Arista DCS-7150S-24-R

Component	Specification
Ports	24 × 10 Gigabit Ethernet SFP+
Switching Capacity	480 Gbps
Forwarding Rate	360 Mpps
Power Supplies	1+1 Redundant, Hot-swappable (2 × PWR-460AC-R included)
Latency	From 350 ns

Modular Operating Architecture

Arista EOS features a uniquely modular, state-sharing OS built on a standard Linux kernel, separating protocol handling from application logic for robust performance.

In-Service Software Upgrade Capability

The multi-process design in EOS allows switch processes to run in isolated memory spaces and conduct in-service software upgrades with minimal risk of disruption.

Comprehensive Monitoring & Automation

Advanced monitoring tools like Zero Touch Provisioning, VMTracer, and native Linux tools provide real-time visibility, simplified deployment, and automation for network administrators.

Self-Healing Resiliency

EOSs architecture leverages in-memory state sharing, enabling self-healing and rapid recovery for network faults and process crashes, supporting high service availability.

High-Performance Multi-Core CPU

The embedded multi-core x86 CPU subsystem empowers the switch to run advanced network and user applications natively, streamlining operations and supporting innovation.

Stateful Fault Management

EOS provides features like Stateful Fault Containment (SFC) and Stateful Fault Repair (SFR), containing issues and restoring affected functions without impacting the entire system.

Integrated Linux Ecosystem

Full shell access and support for bash, Python, and C++ allow users to deploy custom scripts and extensions with no functional limitations, boosting customization.

Consistent EOS Experience

Running the same EOS image across all Arista devices ensures operational consistency, faster troubleshooting, simplified training, and greater long-term investment protection.

Technical Specifications

Product Specifications

Feature	Value
Network Ports	24 × 10 Gigabit Ethernet SFP+
Management Ports	1 × 1 Gigabit Management
RS-232 Serial	1 × RJ45
USB	1 × USB
CPU	Dual-Core x86
Packet Buffer	9.5 MB
VLANs	4096
Switch OS Version	Arista EOS (Group 1)
Airflow Direction	Back-to-Front
Fan Module Options	4 × FAN-7000-R (N+1 redundant) Fan Modules included
Power Supplies Included	2 × PWR-460AC-R (1+1 redundant) Power Supplies included
Switching Capacity	480 Gbps
Forwarding Rate	360 Mpps
MAC Address Table Size	64,000

Feature	Value
Latency	From 350 ns
DRAM	4 GB
Flash	2 GB
Model Number	DCS-7150S-24-R
Part Number	DCS-7150S-24-R

Product Comparison

Feature	Arista DCS-7150S-24-R	Arista DCS-7150S-52-CL-F	Arista DCS-7050TX3-48C8-R
Ports	24 × 10GbE SFP+	52 × 10GbE SFP+	48 × 10GBASE-T RJ45 + 8 × 100GbE QSFP28
Switching Capacity	480 Gbps	1.28 Tbps	2.56 Tbps
Forwarding Rate	360 Mpps	960 Mpps	1,440 Mpps
Latency	From 350 ns	From 350 ns	From 800 ns
Redundant Power	Yes	Yes	Yes
Airflow	Back-to-Front	Front-to-Rear/Back-to-Front	Configurable (Front-to-Rear/ Rear-to-Front)
Management Features	Arista EOS, ZTP, sFlow, CloudVision	Arista EOS, ZTP, sFlow, CloudVision	Arista EOS, ZTP, sFlow, VMTracer
MAC Address Table	64,000	128,000	288,000

Accessories

Category	Accessories
Included Accessories	- 2 × PWR-460AC-R Power Supplies - 4 × FAN-7000-R Fan Modules - Rack Mount Kit
Optional Accessories	- SFP+ Transceivers - Cable Management Arm - Console Cable

Support & Warranty

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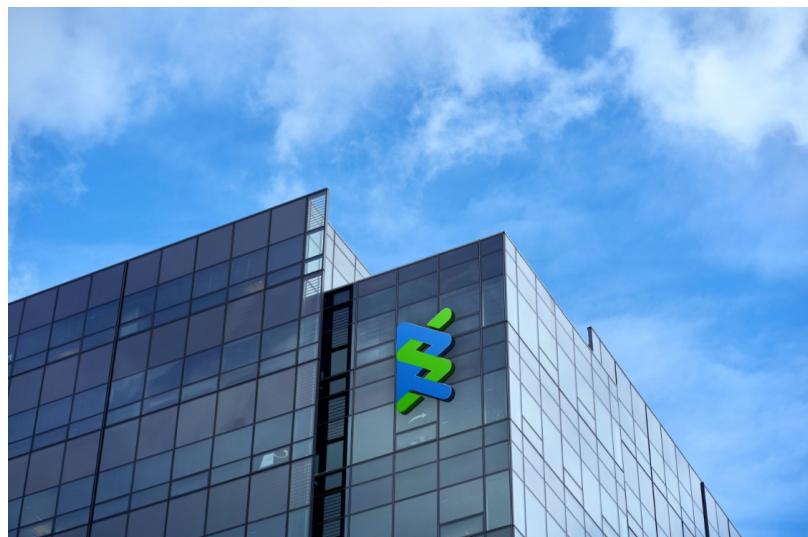
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References

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