

Arista

Arista DCS-7150S-24-F

Datasheet



Product Overview

- The Arista 7150 Series defines a new class in switching, blending ultra-low latency, high-speed, and extensive features into a compact 1RU design.
- Built for high-demand networks, this switch targets financial ECNs, HPC deployments, and cloud data centers needing consistent low-latency performance.
- Key metrics include 24 × 1/10GbE SFP+ ports, up to 480 Gbps switching capacity, and streamlined wire-speed forwarding for all packet sizes.
- Advanced tools such as LANZ Microburst Analysis and IEEE 1588 PTP allow precise monitoring and high-precision synchronization for mission-critical data flows.
- Ease of deployment comes with options like Zero Touch Provisioning and full automation plus solid-state storage and modular, Linux-based Arista EOS.
- Designed for enterprises where every microsecond counts, the 7150S-24-F secures operational agility, deep visibility, and predictable performance for modern data centers.

Product Highlights

- **High-Performance Switching:** Delivers up to 1.28 Tbps capacity and 960 Mpps wire-speed L2/3 forwarding for mission-critical data applications.
- **Ultra Low Latency:** Deterministic latency from just 350 nanoseconds at 1/10/40GbE, with consistent performance for L2 and L3 traffic.
- **Advanced Visibility & Monitoring:** Features CloudVision, LANZ Microburst Analysis, IEEE 1588 PTP, sFlow, and DANZ advanced mirroring for granular control.
- **Redundant & Resilient Design:** Hot-swappable 1+1 redundant power, N+1 fans, front-to-rear airflow, and built-in SSD support ensure business continuity.

Detailed Features



Arista DCS-7150S-24-F

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Component	Specification
Switching Capacity	480 Gbps
Ports	24 × 10G SFP+
Forwarding Rate	360 Mpps
Latency	min 350 ns
CPU	Dual-Core x86



Unified EOS Software Environment

Arista 7150 Series runs a single, consistent EOS image across all models. This results in streamlined network administration, with a unified operating system for configuration, monitoring, and troubleshooting. No retraining or migration issues, ensuring a simplified workflow.

Modular Operating System Design

Arista EOS leverages a uniquely modular, state sharing architecture. Protocol processing, application logic, and switch state are fully separated. This separation boosts security, facilitates targeted updates, and isolates faults without impacting other switch functions.

In-Memory State Sharing

Switch state is exchanged through an in-memory database. All EOS processes operate in secure and isolated spaces, dramatically decreasing process failure risks. This architecture is the backbone for resilient in-service software upgrades and real-time event tracking.

Self-Healing and High Resiliency

EOSs multi-process state sharing allows the system to recover from faults automatically. Update processes occur without full system restarts, which keeps your network stable and reduces downtime in critical environments.

Native Advanced Monitoring

With Arista EOS, sophisticated monitoring including Zero Touch Provisioning and VMTracer operates natively on the multi-core x86 platform. Utilization of proven Linux-based tools extends this, providing robust automation and operations support.

Integrated Linux Tools

Full Linux shell and tool access means EOS is extensible for custom scripts and third-party integration without the typical vendor restrictions. This capability yields greater network programmability and flexibility.

Dynamic Application Hosting

The EOS platform enables user-defined applications to run in independent VMs on the switch. This unique feature lets organizations deploy tailored network analytics, troubleshooting, or security agents directly at the data plane edge.

ROHS Compliance & Future-Ready

SC models within the 7150 Series are built for evolving green regulations, meeting current ROHS requirements. This ensures investment protection and long-term compliance for global and regional deployments.

Technical Specifications

Product Specifications

Feature	Value
Network Ports	24× 10 Gigabit Ethernet SFP+ (1Gb/10Gb)
Management Ports	1× 1 Gigabit Management RJ45
Management Ports (Serial)	1× RS-232 Serial RJ45
Management Ports (USB)	1× USB
CPU	Dual-Core x86
VLAN IDs	4096
Packet Buffer	9.5 MB
Switch Version	Arista EOS
Airflow Direction	Front-to-Back
Fan Module Options	4× FAN-7000-F (N+1 redundant), Front-to-Back Airflow
Power Supplies Included	2× PWR-460AC-F (1+1 redundant)
Power Supply Options	PWR-460AC-R (Reversed / Back-to-Front Airflow available)



Feature	Value
PoE Budget	Included (1-RU)
Switching Capacity	480 Gbps
Forwarding Rate	360 Mpps
MAC Address Table Size	64,000
Latency	350 ns
DRAM	4 GB DRAM
Flash	2 GB Flash

Product Comparison

Feature	Arista DCS-7150S-24-F	Arista DCS-7170-32CD-F	Arista DCS-7160-48TC6-F
Switching Capacity	480 Gbps	6.4 Tbps	2.16 Tbps
Ports	24× 10G SFP+	32× 100G QSFP28	48× 1G/10GBASE-T + 6× 100G QSFP28
Latency	min 350 ns	<1 µs	Sub-microsecond
Redundant Power	Yes (1+1)	Yes (2+1)	Yes (2+1)
Airflow	Front-to-Back	Front-to-Back or Rear-to-Front	Front-to-Back
Management OS	Arista EOS	Arista EOS	Arista EOS
Onboard Storage	SSD Optional	SSD Optional	SSD Optional
Target Application	Low-latency, financial/HPC	Data center core/spine	Campus/network edge

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - 2× Power Supplies - 4× FAN-7000-F Fans - Rack Mount Kit



Category	Accessories
Optional Accessories	<ul style="list-style-type: none">- SFP+ Transceiver Modules- SSD Storage Module- Reversed Airflow Power Supply



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References

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