

**Arista**

**Arista DCS-7010T-48-F**

**Datasheet**



## Product Overview

- The Arista 7010T-48-F is part of the Arista 7000 Series, offering a high-performance, energy-efficient switching solution for modern data centers.
- This switch is ideal for dense server edge, leaf-spine architectures, or dedicated management networks, targeting enterprises and cloud service providers.
- It features 48 × 1G RJ45 and 4 × 10G SFP+ uplinks, providing 176Gbps non-blocking switching and efficient L2/L3 performance.
- Power efficiency is a highlight, with less than 1W per port, dynamic packet buffer allocation, and front-to-back redundant airflow design.
- Centralized automation and monitoring with Arista EOS ensures simplified administration, consistent management, and seamless policy enforcement.
- The Arista 7010T-48-F delivers reliable, scalable connectivity for evolving high-density computing environments across global data centers.

## Product Highlights

- **Unified EOS Software Platform:** Runs Arista EOS, offering consistent software features and simplified management across the 7000 Series portfolio.
- **High Availability Design:** Redundant internal power supplies, hot-swappable reversible fans, and live software patching for maximized uptime.
- **Flexible Deployment Options:** Suitable as server access, management switch, or part of a 1G/10G leaf-spine, supporting various enterprise and cloud scenarios.
- **Comprehensive Monitoring & Security:** Provides full support for QoS, automation, remote OOB management, and intelligent platform management interfaces (IPMI).

## Detailed Features



Arista DCS-7010T-48-F

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Component	Specification
Switching Ports	48 × 10/100/1000 RJ45
Uplink Ports	4 × 1/10GbE SFP+
Switching Capacity	176 Gbps
Forwarding Rate	132 Mpps
Redundancy	Dual internal AC power supplies, redundant fans



## Modular EOS Architecture

Arista EOS on the 7010T-48-F uses a modular software design built on a standard Linux kernel. Each process runs independently with protected memory and an in-memory database for state sharing. This enables quick upgrades, in-service-software updates, and robust self-healing, minimizing service disruption and lengthy maintenance windows for mission-critical networks.

## Consistent Network Management

The device supports advanced automation, monitoring, and provisioning, such as Zero Touch Provisioning and VMTracer, natively on its x86 CPU platform. Unified EOS management streamlines administration, configuration, and policy deployment, even in mixed 1G/10G networks, ensuring operational consistency throughout the entire Arista 7000 Series switch family.

## True High Availability Hardware

Engineered for always-on operation, the 7010T-48-F features 1+1 redundant fixed power supplies and hot-swappable, reversible dual inline fan modules. Live software updates, stateful fault repair, and robust active multipathing using up to 32-port LAG and 64-way ECMP routing deliver continuous availability at both the hardware and software layers.

## Comprehensive Layer 2/3 Features

This switch provides line-rate L2/L3 switching, massive MAC and VLAN tables, and broad L3 scalability for low-latency, high-density data center architectures. Layer 2/3 multipath options and open standards support enable large high-performance networks, integrating tightly with both Aristas fixed and modular solutions to support up to 55,000 1G servers.

## Advanced Security & OOB Networks

Built-in support for consistent access controls, advanced network security features, and remote out-of-band monitoring protect sensitive assets. Intelligent Platform Management Interface (IPMI) access allows privileged server management and robust OOB visibility, ensuring secure management infrastructure for enterprise and cloud settings.

## Flexible Power & Cooling

The 7010T-48-F provides options for AC or DC power input, with redundant power and customer-reversible airflow fans in a compact chassis. It guarantees stable, efficient operation in any rack configuration, allowing airflow direction choices to match hot/cold aisle best-practices and minimizing energy costs.

## Dynamic Resource Allocation

With less than 52W typical power consumption and a dynamic 4MB shared packet buffer, the switch provides energy efficiency and resource optimization. Congested ports get buffer allocations as needed, supporting fast performance and low latency even during traffic spikes, which is vital for modern application demands.

## Scalable Network Virtualization

Arista EOS supports broad virtualization, offering centralized point-of-management for scalability, QoS, and single-pane visibility. Layered with open standards, the switch simplifies expansion, hybrid cloud integration, automation, and aids in migrating legacy systems, driving agility for customers data center transformation roadmaps.

# Technical Specifications

## Product Specifications

Feature	Value
Network Ports	48 x 1 Gigabit Ethernet RJ-45
Uplink Ports	4 x 10 Gigabit Ethernet SFP+
Management Ports	1 x RS-232 RJ-45 Serial Console, 1 x RJ-45 Management, 1 x USB
CPU	Multi-core x86 CPU
VLAN IDs	4096
Packet Buffer	4 MB
Airflow Direction	Front-to-Back
Fan Module Options	1 x FAN-7010 Module Included



Feature	Value
Power Supplies Included	2 x 7010T-AC 65W Internal AC Power Supplies (Fixed)
Switching Capacity	176 Gbps
Forwarding Rate	132 Mpps
MAC Address Table Size	84,000
Latency	3 microseconds
DRAM	4 GB DRAM
Flash	4 GB Flash
Model Number	DCS-7010T-48-F
Part Number	DCS-7010T-48-F

## Product Comparison

Feature	Arista DCS-7010T-48-F	Arista DCS-7160-48YC6-R	Arista DCS-7280CR3K-32P4-R
Fixed Ports	48 x 1G RJ45 + 4 x 10G SFP+	48 x 25G SFP28 + 6 x 100G QSFP28	32 x 100G QSFP100 + 4 x 400G QSFP-DD
Switching Capacity	176 Gbps	2.16 Tbps	12.8 Tbps
Forwarding Rate	132 Mpps	1,200 Mpps	3,820 Mpps
Power Redundancy	Dual AC, fixed	Dual hot-swappable	Dual hot-swappable
Airflow/Fans	Front-to-Back, reversible	Front-to-Back or Back-to-Front, redundant	Front-to-Back or Back-to-Front, redundant
Layer 3 Support	L2/L3 line-rate switching	Advanced L2/L3, VXLAN, EVPN	Advanced L2/L3, VXLAN, EVPN
Management Ports	RJ45 console, management, USB	RJ45 console, management, USB	RJ45 console, management, USB
Suitable Scenario	1G/10G access, management	25G/100G leaf or spine	Core/aggregation with 100G/400G



## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"><li>- Dual AC Power Supplies</li><li>- Reversible Fan Module</li><li>- Rack Mount Kit</li></ul>
Optional Accessories	<ul style="list-style-type: none"><li>- SFP+ Optical Transceivers</li><li>- DC Power Supply Module</li><li>- Management Cable Kit</li></ul>



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## References

[1] Arista Networks. (2024). 7010T-48 Series Datasheet. Retrieved from [https://www.arista.com/assets/data/pdf/Datasheets/7010T-48\\_Datasheet.pdf](https://www.arista.com/assets/data/pdf/Datasheets/7010T-48_Datasheet.pdf)