Arista

Arista DCS-7010T-48-R

Datasheet

Product Overview

- Arista's 7010T series expands the data center portfolio, delivering reliable, high-density switching for modern IT needs.

- Optimized for server edge, leaf-spine, and management network roles, it's suitable for enterprises and data center integrators.

- The switch offers 48 10/100/1000 RJ45 ports and 4 SFP+ uplinks, providing 176Gbps forwarding and robust L2/L3 features.

- It stands out with low latency, dynamic packet buffer allocation, and a choice of AC or DC power options for deployment flexibility.

- EOS unifies advanced automation, monitoring, and provisioning for consistent operations in mixed network environments.

- Ideal for data centers seeking efficient 1G/10G policy enforcement, Arista 7010T simplifies scalable, high-availability networking.

Product Highlights

- **Unified EOS Software:** The 7010T runs Arista EOS, providing a consistent, modular operating system for seamless network administration.

- **High Availability Design:** Redundant power supplies and reversible dual fan modules ensure maximum uptime in mission-critical environments.

- **Secure Management Networks:** Comprehensive access control and out-of-band monitoring protect against unauthorized network access.

- **Scalable Performance:** Delivering line-rate L2/L3 switching and up to 64-way ECMP routing for high-efficiency data center operations.

Detailed Features

Arista DCS-7010T-48-R

Component	Specification
Switching Ports	48 x 1 Gigabit Ethernet RJ-45
Uplink Ports	4 x 10 Gigabit SFP+
CPU	Multi-core x86
Switching Capacity	176 Gbps
Redundant Power	2 x Internal AC Power Supplies

Modular EOS Platform

Leveraging Arista EOS, the 7010T offers a modular and state-aware architecture. Each process operates independently, communicating through a shared in-memory database, which increases system resilience. This design enhances in-service software upgrade capabilities and supports advanced automation for efficient network operations.

High Performance Hardware

With 48 10/100/1000Mb RJ45 ports, 4 SFP+ uplinks, and a switching capacity of 176 Gbps, the 7010T delivers line-rate connectivity for dense data center deployments. The dynamically allocated 4 MB shared buffer ensures optimal throughput even under heavy congestion scenarios.

Intelligent Management Integration

Supporting Intelligent Platform Management Interface (IPMI), the 7010T enables full server managementstartup, shutdown, and maintenanceover standard Ethernet networks. Management is enhanced with 1 x RS-232 console, 1 x RJ-45 management port, and a dedicated USB interface.

Redundant Power & Cooling

The 7010T is designed with dual redundant internal power supplies and a reversible, hot-swappable fan module. This ensures uptime even in power or thermal events, with flexible airflow direction to suit varied rack environments across global data centers.

Consistent Security Policy Enforcement

Arista EOS applies rich security and access control features across both the management and production networks. It supports advanced monitoring, granular access restrictions, remote auditing, and consistent policy deploymentkey for regulatory compliance in enterprise and financial sectors.

Advanced L2/L3 Networking

The switch supports robust Layer 2 and Layer 3 capabilities, including 64-way ECMP routing, link aggregation (up to 32 ports per LAG), and multi-chassis LAG for active/active multipathing. This optimizes performance, load balancing, and redundancy for large-scale deployments.

Efficient Power Consumption

Consuming under 52W and providing less than 1W per port, the 7010T sets a benchmark for energy-efficient access layer switching. Its green design minimizes operational costs and meets sustainability requirements for global data centers and hosted facilities.

Seamless Scaling and Automation

Combining with the Arista 7000 Series, the 7010T enables simple network scaling, high-density 1G/10G deployments, and support for open standards. Advanced automation and monitoring tools offer single-point management, ideal for large, distributed infrastructures.

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
Fan Module Options	1 x FAN-7010 Module - Back-to-Front Airflow
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

Feature	Value
Latency	3 microseconds
DRAM	4 GB DRAM
Flash	4 GB Flash
Part Number	DCS-7010T-48-R

Product Comparison

Feature	Arista DCS-7010T-48-R	Arista DCS-7160-48TC6-F	Arista DCS-7280CR3-32P4#
Fixed Ports	48 x 1G RJ-45	48 x 1G RJ-45 + 6 x 100G QSFP28	32 x 100G QSFP28 + 4 x 400G QSFP-DD
Uplink Ports	4 x 10G SFP+	6 x 100G QSFP28	4 x 400G QSFP-DD
Switching Capacity	176 Gbps	2.16 Tbps	25.6 Tbps
Forwarding Rate	132 Mpps	1.08 Bpps	19.05 Bpps
Redundant Power	Yes	Yes	Yes
Fan Redundancy	Reversible, hot swap	Front-to-back, hot swap	Front-to-back, hot swap
Management Ports	Serial, RJ-45, USB	Serial, RJ-45, USB	Serial, RJ-45, USB
Layer 3 Features	Advanced, up to 64-way ECMP	Advanced, up to 128-way ECMP	Advanced, up to 256-way ECMP
Typical Scenario	Access/server edge	Data center/spine	Core/data center aggregation

Accessories

Category	Accessories
Included Accessories	- 2 x Internal AC Power Supplies - Mounting Brackets - Console Cable
Optional Accessories	- SFP+ Transceivers - Reversible Fan Module - DC Power Supply Kit

Support & Warranty

| 24/7 Online Service | 3-Year Premium Warranty | Professional Technical Support | 100% Low Price Guarantee | 100% Quality Assurance | 100% Money Back Guarantee |

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References

[1] Arista Networks. (2023). Arista 7010T-48 Datasheet. Retrieved from https://www.arista.com/assets/data/pdf/Datasheets/7010T-48_Datasheet.pdf