Arista

Arista DCS-7010T-48-DC-F

Datasheet

Product Overview

- Arista's DCS-7010T-48-DC-F switch is part of the high-performance 7010T series, designed to deliver efficient, reliable data center switching.

- It is ideal for dense data centers, cloud deployments, and enterprise core networks, meeting the needs of resellers, integrators, and end customers.

- Key hardware highlights include 48 x 10/100/1000 RJ45 ports, 4 x 1/10G SFP+ uplinks, and up to 176 Gbps switching capacity for non-blocking throughput.

- Feature-rich with low latency, dynamic packet buffer allocation, dual DC power, and flexible airflow direction, it stands out from conventional switches.

- Integrated automation, monitoring, and QoS make deployment and management consistent and simple across mixed environments.

- This switch is perfect as a server edge leaf in enterprise networks or as a dedicated management switch, reliably supporting high-density applications with advanced data control.

Product Highlights

- **Unified EOS Software:** Runs industry-standard Arista EOS for simplified, consistent network management across all Arista switch models.

- **High-Availability Hardware Design:** Dual DC power supplies and reversible, hot-swap fans ensure continuous operation and reliable cooling.

- **Flexible Connectivity:** 48 Gigabit RJ45 ports and 4 SFP+ uplinks deliver scalable options for both access and aggregation needs.

- **Dynamic Monitoring & Security:** Supports advanced monitoring, automation, and integrated security for secure and efficient network operation.

Detailed Features

Arista DCS-7010T-48-DC-F

Quote | Help

Component	Specification
Downlink Ports	48 × 10/100/1000 RJ45
Uplink Ports	4 × 1/10G SFP+
Switching Capacity	176 Gbps
Forwarding Rate	132 Mpps
Power Supply	Dual DC Redundant

Unified Network Operating System

The DCS-7010T-48-DC-F leverages Arista EOS, a modular operating system that separates switch state, protocol processing, and logic. This enables in-service software updates and a resilient self-healing architecture, based on protected memory processes and in-memory database communication.

Comprehensive Automation Tools

Advanced automation is native to the platform, including Zero Touch Provisioning, VMTracer, and Linux-based management tools. These features empower rapid deployment at large scale and enable consistent network policies across multiple switches.

Robust Hardware Performance

The switchs hardware supports 48 Gigabit RJ45 ports and 4 SFP+ uplink ports, offering a combined switching capacity of 176 Gbps. The multi-core x86 CPU and dynamically shared packet buffer technology deliver low latency and support diverse, intensive workloads.

Energy Efficiency & Redundancy

Class-leading energy consumption of less than 52W (under 1W per port) provides efficient operation in massive deployments. Redundant DC power supplies and reversible fan modules secure vital cooling paths and uninterrupted service.

Advanced Layer 2/3 Capabilities

With full support for both Layer 2 and Layer 3 switching at line rate, the Arista 7010T scales seamlessly as a leaf switch or management node. The 64-way ECMP and up to 32-port LAGs ensure multipath reliability and efficient distribution.

High Availability & Live Updates

Key high-availability features such as stateful fault repair and live software patching minimize downtime. Internal design includes 1+1 power, modular color-coded fans, and robust hardware components for continuous operation.

Security & Out-of-Band Management

Supports strict access controls, advanced security features, and remote monitoring for both production and management networks. IPMI integration offers privileged control and comprehensive management of servers at the hardware level.

Scalable, Open Architecture

Open standards support, L2/L3 multipath, and virtualization-ready architecture allow easy integration with Arista's 7000 series for growing data centers. The solution easily scales to over 55,000 servers with predictable performance and centralized management.

Technical Specifications

Product Specifications

Feature	Value
Network Ports	48 × 1 Gigabit Ethernet RJ45
Uplink Ports	4 × 10 Gigabit Ethernet SFP+
Management Ports	1 × Gigabit Ethernet Management, 1 × USB
CPU	Multi-core x86
VLAN IDs	4096
Packet Buffer	4 MB
Airflow Direction	Front-to-Back
Fan Module Options	2 × FAN-7010 (1+1 redundant), included
Power Supplies Included	2 × DC PSUs included
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
Model Number	DCS-7010T-48-DC-F
Part Number	DCS-7010T-48-DC-F

Product Comparison

Feature	Arista DCS-7010T-48-DC-F	Arista DCS-7050SX3-48YC8-F	Arista DCS-7150S-64-CL-R
Fixed Ports	48 × 1G RJ45 + 4 × 10G SFP+	48 × 25G SFP28 + 8 × 100G QSFP28	64 × 10G SFP+
Switching Capacity	176 Gbps	3.6 Tbps	1.28 Tbps
Forwarding Rate	132 Mpps	2.6 Bpps	960 Mpps
Power Supply	Dual DC Redundant	Dual & Hot-Swap AC/DC	Dual & Hot-Swap AC/DC
Fan Design	Reversible, Hot-Swap	Reversible, Hot-Swap	Hot-Swap
Layer 3 Routing	Supported	Advanced	Advanced
Stacking	Not Supported	Supported	Supported
Management Features	Arista EOS, Automation, Security	Arista EOS, Advanced Automation	Arista EOS, Low Latency, Automation

Accessories

Category	Accessories
Included Accessories	- 2 × DC Power Supplies - FAN-7010 Fan Modules - Mounting Kit
Optional Accessories	- SFP+/SFP Transceivers - High-speed Network Cables - Cable Management Arm

Support & Warranty

24/7 Online Service

3-Year Premium Warranty

Professional Technical Support

100% Low Price Guarantee

100% Quality Assurance

100% Money Back Guarantee

About Us

Router-switch.com, headquartered in Hong Kong since 2002, has been a trusted global leader in ICT distribution for 23 years. We provide cutting-edge networking, cybersecurity, data center, and AI solutions to meet evolving business needs. Our wide range includes products from top brands like Cisco, Arista, Aruba, Fortinet, Mellanox, and Huawei, ensuring access to the latest technology and innovations.

18,000+
global customers

600,000+
end-users

200+
countries & regions

23
years experience

500+
global vendors

100,000+
SKUs available

700+
local sales experts

50-98%
off global list prices

Contact Us

Email

High Connectivity: sales@router-switch.com
Expert Technical Support: ccie-support@router-switch.com
Cooperative Partnerships: ccie-support@router-switch.com

Follow Us

Facebook: @Routerswitchdotcom
LinkedIn: Router-switch.com
X: @routerswitchcom
Instagram: @routerswitchdotcom

Phone

USA: +1-626-655-0998
Hong Kong: +852-25925389 / +852-25925411

Global Footprint

Global Warehouses & Service Centers Across Continents.

London
United Kingdom

Berlin
Germany

New Jersey, NJ
United States

Mumbai
India

Los Angeles, CA
United States

Shenzhen
China

Riyadh
Saudi Arabia

Hanoi
Vietnam

Hong Kong
China

Dubai
The United Arab Emirates

Singapore
Republic of Singapore

Global Branches

Headquarters (Hong Kong)

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

USA Branch

35 E Horizon Ridge Pkwy, Ste 110 #30131, Henderson, NV 89002, USA

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK

References

[1] Arista Networks. (2022). Arista 7010T-48 Series Datasheet. Retrieved from https://www.arista.com/assets/data/pdf/Datasheets/7010T-48_Datasheet.pdf