

**Arista**

**Arista DCS-7160-48TC6-F**

**Datasheet**



## Product Overview

- The Arista 7160 Series is a vital line in Arista's 7000 Series, designed for demanding cloud-scale data center networking.
- The 7160 Series targets enterprise data centers, cloud service providers, and businesses requiring high capacity, scalable switching.
- Key specs include 48x 10GBASE-T ports, 6x 100GbE QSFP uplinks, and high-density configuration in a single 1RU system.
- Unique features include programmable switch architecture, flexible port speed options, and highly efficient power design.
- Operations are made simple with software-driven updates, providing easy packet parsing, traffic scheduling, and monitoring.
- The 7160 Series ensures smooth data center upgrades, offering high performance, flexibility, and future-ready Ethernet scalability.

## Product Highlights

- **High-Density 10/25/100GbE Ports:** The 7160-48TC6 model delivers 48x 10GBASE-T ports and 6x 100GbE QSFP uplinks for flexible, high bandwidth deployments.
- **Wire-Speed Performance:** Up to 2.4 billion packets per second forwarding and a switching capacity of 6.4 Tbps ensure maximum throughput in data center networks.
- **Advanced Power and Cooling:** Redundant hot-swappable power and fan modules, front-to-back or rear-to-front airflow, and over 94% efficient power supplies provide reliable operation.
- **Cloud-Ready Software Ecosystem:** Includes Arista EOS, AlgoMatch, CloudVision, and VXLAN routing features for cloud automation, virtualization, and advanced monitoring.

## Detailed Features



### Arista DCS-7160-48TC6-F

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Component	Specification
Downlink Ports	48x 10 Gigabit Ethernet RJ45
Uplink Ports	6x 100 Gigabit Ethernet QSFP100
Switching Capacity	2.16 Tbps
Management Ports	1x Gigabit Management RJ45, 1x RS-232 RJ45, 2x USB Type A
Power Supply	2x PWR-500AC-F (Front-to-Back Airflow)



## Unified EOS Platform

All Arista 7160 Series run the same EOS software binary, simplifying administration and ensuring consistency across network infrastructure. The modular architecture separates state, protocol, and logic for robust management and isolation of network processes, allowing safe in-service updates and ensuring resiliency.

## Advanced Automation and Monitoring

Arista EOS supports powerful automation with Zero Touch Provisioning (ZTP), advanced telemetry via LANZ, VM Tracer integration, and native Linux tools. Operators benefit from task automation, workload mobility, and streamlined monitoring, boosting operational efficiency and reducing human error risks.

## Programmable Data Path

Arista's flexible packet pipeline lets organizations add new network protocols, encapsulation types, and flow controls through software, rather than hardware replacement. This accelerates the deployment of emerging technologies like VXLAN, saves costs, and delivers rapid innovation for network upgrades.

## Flexible Memory Resource Allocation

The 7160 enables dynamic allocation of table resources through Forwarding Profiles. This granularity supports use-case specific optimization for L2/L3 forwarding, ACLs, and virtualization helping data centers of any scale tune the network to their unique workloads and traffic patterns.

## Scalable, Non-blocking Design

With support for scalable MLAG for Layer 2, ECMP at Layer 3, and VXLAN for network virtualization, the 7160 offers non-blocking leaf-spine architectures for 10K to 100K hosts. Consistent application performance and network-wide virtualization are possible with high port count designs.

## AlgoMatch Enhanced Policy Engine

Arista AlgoMatch uniquely blends hardware and software for highly efficient packet matching, scalable policy enforcement, and telemetry. It enables flexible IPv4/IPv6 access control and custom flow actions, maximizing performance at lower power and cost than traditional models.

## Comprehensive Virtualization Capabilities

Tight integration with orchestration tools and seamless VXLAN gateway functionality allow the 7160 to bridge traditional and virtual networks. Support for VM Tracer and multi-vendor APIs makes it ideal for next-gen data centers embracing full virtualization and hybrid environments.

## Cloud-Class Orchestration and AEM

CloudVision provides turnkey, network-wide orchestration and automation. EOS's Advanced Event Management (AEM) enables real-time, customizable alerts and automated actions for immediate network response, creating intelligent, agile, and easily managed data center fabrics.

# Technical Specifications

## Product Specifications

Feature	Value
Network Ports	48x 10 Gigabit Ethernet RJ45
Uplink Ports	6x 100 Gigabit Ethernet QSFP100
Management Ports	1x Gigabit Management RJ45, 1x RS-232 RJ45, 2x USB Type A
CPU	Quad-Core x86
VLAN IDs	4096
Packet Buffer	24 MB
Switch Version	Arista EOS
Airflow Direction	Front-to-Back Airflow
Fan Module Options	4x FAN-7000H-F Fan Modules Included - Front-to-Back Airflow



Feature	Value
Power Supplies Included	2x PWR-500AC-F Power Supplies Included - Front-to-Back Airflow
Power Supply Options	PWR-500AC-R
PoE Budget	N/A
Switching Capacity	2.16 Tbps
Forwarding Rate	2.4 Bpps
MAC Address Table Size	128,000
Latency	From 3 $\mu$ s
DRAM	8 GB
Flash	4 GB
Part Number	DCS-7160-48TC6-F

## Product Comparison

Feature	Arista DCS-7160-48TC6-F	Arista DCS-7280QR-C72-R	NVIDIA Mellanox MSN2201-CB2FC
Downlink Ports	48x 10 Gigabit Ethernet RJ45	72x 40 Gigabit Ethernet QSFP+	32x 100 Gigabit Ethernet QSFP28
Uplink Ports	6x 100 Gigabit Ethernet QSFP100	2x 100 Gigabit Ethernet QSFP28	2x 10 Gigabit Ethernet SFP+
Switching Capacity	2.16 Tbps	5.76 Tbps	6.4 Tbps
Forwarding Rate	2.4 Bpps	4.2 Bpps	4.76 Bpps
MAC Address Table	128,000	288,000	256,000
Layer 3 Routing	Yes	Yes	Yes
Management Ports	1x RJ45, 1x RS-232, 2x USB Type A	1x RJ45, 1x RS-232, 2x USB Type A	1x RJ45, 2x USB Type A
Redundant Power	2x PWR-500AC-F (hot-swappable)	2x (hot-swappable)	2x (hot-swappable)
Fan Redundancy	4x hot-swappable fans	Hot-swappable fans	Hot-swappable fans
PoE Support	No	No	No



Feature	Arista DCS-7160-48TC6-F	Arista DCS-7280QR-C72-R	NVIDIA Mellanox MSN2201-CB2FC
Primary Application	High-density top-of-rack and leaf deployments	Aggregation, core network switching	High-speed spine switching, data center interconnect

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"><li>- 2x PWR-500AC-F Power Supplies</li><li>- 4x FAN-7000H-F Fan Modules</li><li>- Basic Mounting Kit</li></ul>
Optional Accessories	<ul style="list-style-type: none"><li>- SFP+/QSFP Optics Modules</li><li>- Compatible Console Cables</li><li>- Spare Fan or Power Modules</li></ul>



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## References

[1] Arista Networks. (2023). Arista 7160 Series Data Center Switches Datasheet. Retrieved from <https://www.arista.com/assets/data/pdf/Datasheets/7160-Datasheet.pdf>