



Arista 7060X6-64PE



Arista 7060X6-32PE

High Performance

- Flexible 800G, 400G, 200G support
- Up to 64 ports of 800G with a choice of OSFP or QSFP-DD
- Under 16W typical power per port
- Wire speed L2 and L3 forwarding
- Up to 51.2 terabits per second and 21.2 billion packets per second
- Latency from 700ns
- Support for Linear Pluggable Optics (LPO)

Cloud Networking Ready

- 128-way ECMP for hyperscaler and AI/ML networks
- Flow aware traffic scheduling
- Shared 165 MB Buffer with burst absorption and support for Advanced Queueing
- Up to 136K MAC addresses
- Over 860K IPv4 Routes
- Over 500K IPv6 Routes
- DirectFlow and eAPI

AI/ML Ready

- RoCEv2
- Packet Spraying
- Dynamic Load Balancing (DLB)
- RDMA-aware Load Balancing
- Advanced DCQCN
- Priority Flow Control (PFC)
- Explicit Congestion Notification (ECN)
- SSU
- AI Analyzer
- LANZ for microburst detection
- DANZ Advanced Mirroring for visibility
- Workload and NIC Integration

Arista 7060X6 Series Introduction

The emergence and rapid adoption of AI/ML technologies, coupled with a significant surge in bandwidth requirements in front-end and back-end data center networks, is driving the roadmap for the next generation of networking devices.

800 Gigabit Ethernet is instrumental in this ecosystem of ultra-high performance applications including hyper-scale cloud computing and dedicated AI/ML clusters. Faster, higher capacity accelerators like GPUs, TPUs, high speed connectivity options, specialist processors, Smart NICs, and flash storage enable the construction of larger clusters which require high bandwidth and scale out networks made possible by high radix switches, to achieve optimal performance.

The Arista 7060X6 series delivers a rich choice of port speeds and density including support from 25 GbE all the way up to 800 GbE, enabling consistent network architectures that seamlessly scale from small dedicated clusters to the needs of the largest multi-tier networks.

Coupled with Arista EOS, the 7060X6 smart switch delivers advanced features for hyperscale networks, server-less compute, big data farms and AI clusters. Scalability, high bandwidth, low latency, traffic management and prioritization, network security, rich telemetry and instrumentation are the cornerstones for the next generation networks.

Model Overview

The 7060X6 Series is available in a choice of two models:

- The **7060X6-64PE** is a 2RU system with 64 800G OSFP ports offering wire speed throughput of up to 51.2 Tbps. Each OSFP port supports a choice of speeds with flexible configuration between 800 GbE, 400 GbE, 200 GbE, 100 GbE, 50 GbE, 40 GbE, 25 GbE and 10 GbE modes for up to 320 ports.
- The **7060X6-32PE** is a 1RU system with 32 800G OSFP ports offering wire speed throughput of up to 25.6 Tbps. Each OSFP port supports a choice of speeds with flexible configuration between 800 GbE, 400 GbE, 200 GbE, 100 GbE, 50 GbE, 40 GbE, 25 GbE and 10 GbE modes for up to 256 ports.

With a view to providing greater deployment flexibility and reliability, the 7060X6 Series also introduces a novel concept of a field-removable Supervisor card.

This offers several benefits, particularly in terms of simplified maintenance, reduced downtime, increased flexibility, lower TCO, and improved reliability.

All of these combine to offer robust operational efficiency in the deployments.



Arista 7060X6 Rear View: Accessing the field replaceable Supervisor card

Arista EOS

Arista EOS is a modular switch operating system with a unique state sharing architecture that cleanly separates switch state from protocol processing and application logic. Built on top of a standard Linux kernel, all EOS processes run in their own protected memory space and exchange state through an in-memory database. This multi-process state sharing architecture provides the foundation for in-service-software updates and self-healing resiliency.

7060X6 Series Systems

Arista 7060X6 Series support hot-swappable power supplies and N+1 fan redundancy, EOS high availability, a choice of L2 and L3 multi-pathing designs and powerful EOS innovations for visibility, application level performance monitoring and virtualization.

Feature	Description
CloudVision	Network-wide workflow automation and workload orchestration as a turnkey solution for Cloud Networking
Wirespeed VXLAN Routing	Seamless integration between VXLAN and L2/L3 environments, physical and virtualized networks
Fully shared packet buffer	Advanced traffic manager with up to 165MB of packet buffer that is fully shared across all ports
128-way ECMP and MLAG	Improve network scalability and balance traffic across large-scale leaf-spine designs or server load balancers
Latency Analyzer	Real time visibility of port latency and per port high watermarks to provide immediate feedback and precision monitoring
AI Analyzer *	Analyzing AI traffic flows at a very granular level, and using this data to fine tune load balancing parameters
Dynamic Load Balancing	Enhanced load distribution for optimal traffic distribution and link utilization for intensive data center workloads

	7060X6-64PE	7060X6-32PE
Description	64 800G OSFP and 2 SFP+	32 800G OSFP and 2 SFP+
800G Ports	64	32
400G Ports	128	64
200G Ports	256	128
100G Ports	320	256
50G Ports	320	256
Maximum Throughput	51.2 (102.4) Tbps	25.6 (51.2) Tbps
Maximum Forwarding Rate	21.2 Bpps	21.2 Bpps
Latency	700 ns	700 ns
Buffer	165 MB	84 MB
Airflow	Front-Rear	Front-Rear

* Not currently supported in EOS