



Arista 7260X3 Series

Arista 7260X3 Series Introduction

The Arista 7060X and 7260X Series are the benchmark for performance, scale and power efficiency in fixed configuration data center switches. Increased performance and widespread adoption of 10G and 25G servers is accelerating the need for flexible, dense 100GbE solutions at spine layer and dense 50GbE solutions for storage and compute.

The Arista 7260X3 extends the Arista 7060X and 7260X portfolio with enhanced performance, 50G/100G density, low latency and features designed for software driven cloud networking in a compact form factor and low power foot print.

High Performance

- Up to 12.8 Tbps system capacity
- Up to 4.2 billion packets per second
- Wire speed unicast & multicast
- Class leading latency as low as 450ns
- High density 40G/100G systems
- Quad 10G and 25G or Dual 50G modes
- 42MB packet buffer
- Under 6W per 100G

Feature Rich

- High Availability
- DC optimized airflow
- Rich L2 and L3 features
- 64-Way MLAG
- 128-Way ECMP or UCMP
- VXLAN gateway and routing
- Zero Touch Provisioning
- Smart System Upgrade
- Hitless MLAG ISSU
- Dynamic Load Balancing

High Scalability

- Wirespeed L2 and L3 forwarding
- 64 x 100G or 40G with optics and cables
- Up to 128 x 10G, 25G or 50G using breakout cables
- Scalable leaf spine designs
- UFT - MAC 264K / IPv4 Hosts 200K
- Max Routes: 180K IPv4 / 90K IPv6

Advanced Monitoring

- CloudVision
- LANZ microburst detection
- AEM proactive management
- IEEE 1588 precision timing
- sFlow for network visibility
- VM Tracer integration
- RAIL for Big Data and Hadoop

7260X3 Deployment Scenarios

With 64 QSFP100 ports the 7260CX3-64 is a dense 40/100GbE system that can support a flexible combination of up to 64x 40/100GbE, 128x 50GbE or 10/25GbE of wire speed performance in a 2RU system powered by Arista EOS, the worlds most advanced network operating system.

The flexibility of the L2 and L3 multi-path design options combined with support for open standards provides the Arista 7260X3 series maximum flexibility, scalability and network wide virtualization that scales to thousands of hosts in a single two-tier design that provides flexibility in building scalable leaf and spine designs. The following are a selection of use cases:

- **Dense top of rack** for server racks with both 40GbE and 50GbE systems
- **40GbE and 50GbE attached storage** – dense NFS systems, high performance
- **High Performance Trading** — consistent low latency with higher speed servers results in lower end to end latency
- **Scalable cloud designs up to 128-way** — cost-effective multi-pathing using open protocols with the Arista 7320X and 7500R as 100GbE modular spines scales to over 100,000 servers in two-tier design
- **Grid / HPC** — designs requiring cost effective and power efficient systems to enable non-blocking throughput for high performance Servers
- **Leaf-Spine** — open standards based L2 and L3 with monitoring and visibility features — VM Tracer, LANZ, sFlow and Tracers
- **100GbE Scale Out Designs** — Small to medium locations requiring power efficiency and high density compact systems
- **Software Defined Networking** — with support for CloudVision, VXLAN, OpenFlow, DirectFlow and eAPI
- **Enterprise Aggregation** — up to 64 x 100/40G ports or 128 x 25/10G and full L2 and L3 features as a fixed spine with full visibility and open management APIs.

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.

7260X3 Series Systems

Arista 7260X3 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 Gateway	Seamless integration between VXLAN and L2/L3 environments, physical and virtualized networks
IEEE 1588 PTP	Build and scale accurate timing solutions with sub-microsecond accuracy
Smart System Upgrade	Optimized SW upgrades to reduce the impact of software upgrades and avoid network convergence
Hitless Speed Changes	Eliminate downtime when configuring different speeds and bringing up new links
128-way ECMP and 64-way MLAG	Improve network scalability and balance traffic across large-scale leaf-spine designs or server load balancers
Latency Analyzer	A solution to improve monitoring and visibility at all speeds for congestion from persistent or microbursts.
Cloud Control & SDN	Support for Openflow and OpenStack automation and self-service provisioning with cloud scale economics
Scalable Tables — ALPM and UFT	Flexible allocation of L2 and L3 forwarding table resources for greater design choice
Dynamic Loading Balancing	Enhanced load distribution for optimal traffic distribution and link utilization for intensive data center applications
IEEE 25GbE 802.3by	IEEE standard ensuring interoperability, long reach optics and long term investment protection
Packet Timestamping	Monitor end to end network performance with accuracy

	7260CX3-64
Description	64-Port QSFP100 and 2 SFP+
Maximum 100G Ports	64
Maximum 40G Ports	64
Maximum 10G Ports	130 *
Maximum 25G Ports	128 *
Maximum 50G Ports	128
Maximum System Throughput (bps)	12.8Tbps
Maximum Forwarding Rate (PPS)	4.2Bpps
Port to Port Cut-through Latency	450ns
Total System Buffer	42MB
Typical Power per port	5.3W
Airflow	Front-Rear or Rear-Front

High Availability

- 1+1 hot-swappable power supplies and
- Four N+1 hot-swap fans
- Color coded PSU's and fans



Arista 7260X3 2RU Rear View: Front to Rear airflow (red)



Arista 7260X3 2RU Rear View: Rear to Front airflow (blue)

* Not currently supported in EOS