



Arista 7060X and 7260X Series

## Arista 7060X and 7260X Series Introduction

The Arista 7060X and 7260X Series are the benchmark for performance, scale and power efficiency in fixed configuration data center switches. The expansion of next generation applications for machine learning and artificial intelligence to support a broad spectrum of cloud applications and intelligent services is driving the evolution of scale-out networks. The growth in datacenter performance is leading to the widespread adoption of 25G, 50G and 100G servers and accelerating the need for dense 400G and 100G networking solutions that accommodate a broad range of interface speeds. The Arista 7060X and 7260X Series extends Arista's industry leading fixed configurations with the highest performance, scalability, density and innovative features optimized for software driven cloud networking.

### High Performance

- Up to 25.6 Tbps system capacity
- Up to 9.52 billion packets per second
- Wire speed unicast & mcast
- Class leading latency as low as 450ns
- High density 400G/100G systems
- Flexible choices for 100G, 40G, 10G and 25G ports
- Up to 64MB shared packet buffer
- Under 17W per 400G port
- Under 7W per 100G and 5W per 40G port

### Feature Rich

- High Availability
- DC optimized airflow
- Rich L2 and L3 features
- 64-Way MLAG
- Large Scale ECMP
- Zero Touch Provisioning
- Smart System Upgrade
- Hitless MLAG ISSU

### High Scalability

- Wirespeed L2 and L3 forwarding
- Up to 128 x 100G
- Scalable Leaf-Spine and Spline designs
- Flexible L2 and L3 resources allocation
- Up to 480K IPv4 Routes

### 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

### 7060X and 7260X Deployment Flexibility

The Arista 7060X and 7260X portfolio of 1RU and 2RU data center switches, deliver a rich choice of interface speed and density allowing leaf-spine networks to seamlessly migrate from 10G/40G to 25G/100G and 200G/400G. The 7060X and 7260X powered by Arista EOS, the worlds most advanced network operating system, are available in a range of models:

- **7060X4** - 400G and 100G with a choice of OSFP & QSFP-DD ports
- **7060CX and 7060CX2** - 10/25G and 40/100G with QSFP100 ports
- **7260CX and 7260CX3** - 40/100G connectivity with QSFP100 ports
- **7060SX2** - 10/25G SFP25 and QSFP100 for 100G
- **7260QX** - 40G connectivity with QSFP+ ports

Each of the 7060X and 7260X models offers high performance, rich features and advanced provisioning and monitoring tools that provide flexibility in building scalable leaf and spine designs. The flexibility combined with a consistent architecture offered by the 7060X and 7260X series ensures suitability for a variety of deployment scenarios. The following are a selection of use cases:

- **Hyper-scale cloud** — for large scale multi-tier networks
- **Dense top of rack** — for server racks with 1/10G, 25G to 100G systems
- **High performance storage** — NFS and NVMe high performance systems
- **Grid / HPC** — designs requiring cost effective and power efficient systems to enable non-blocking or minimal over-subscription for servers
- **Leaf-Spine** — open standards based L2 and L3 with monitoring and visibility features — VM Tracer, LANZ, sFlow and Tracers
- **100G 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
- **ECMP designs up to 128-way** — cost-effective multi-pathing using open protocols and fixed configuration spine switches
- **High Performance Trading** — consistent low latency with higher speed servers results in lower end to end latency

### 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.

### 7060X and 7260X Series Systems

Arista 7060X and 7260X Series all support hot-swappable power supplies and N+1 fan redundancy, EOS high availability and live software patching, a choice of L2 and L3 multi-pathing designs and powerful EOS innovations for visibility, application level performance monitoring, traffic management and virtualization.

Feature	Description
CloudVision	Network-wide workflow automation and workload orchestration as a turnkey solution for Cloud Networking
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 for congestion from persistent or microbursts.
Cloud Control & SDN	Support for Openflow and OpenStack automation and self-service provisioning with cloud scale economics
Scalable L2 & L3 Tables	Flexible allocation of L2 and L3 forwarding table resources for greater design choice in multi-tier networks
High Performance Shared Buffer Memory	Integrated packet buffer that is dynamically shared across ports to maximize the per port buffer for bursty applications and advanced congestion control for lossless traffic requirements in low latency networks

	<b>7060PX4-32 7060DX4-32</b>	<b>7060CX2-32S<sup>1</sup> 7060CX-32S</b>	<b>7060SX2-48YC<sup>6</sup></b>	<b>7260QX-64</b>	<b>7260CX3-64<sup>1</sup> 7260CX-64</b>
Description	32-Port OSFP or QSFP-DD and 2 SFP+	32-Port QSFP100 and 2 SFP+	48-Port SFP25 and 6 QSFP100	64-Port QSFP+ and 2 SFP+	64-Port QSFP100 and 2 SFP+
Size (RU)	1RU	1RU	1RU	2RU	2RU
Maximum 400G Ports	32	-	-	-	-
Maximum 200G Ports	64	-	-	-	-
Maximum 100G Ports	128	32	6	-	64
Maximum 40G Ports	-	32	6	64	64
Maximum 25G Ports	-	128	72	-	128* (256)
Maximum 10G Ports	2	130	72	2	130* (258)
Max Throughput (Tbps)	25.6Tbps	6.4Tbps	3.6Tbps	5.12Tbps	12.8Tbps
Max Forwarding Rate (PPS)	8Bpps	3.3Bpps	2.7Bpps	3.3Bpps	4.2 Bpps (9.52Bpps)
Latency	700ns	450ns	450ns	550ns	450ns (550ns)
Total System Buffer	64MB	22MB (16MB)	22MB	16MB	42MB (64MB)

\* Not currently supported in EOS

<sup>1</sup> 802.3by compliant