



Arista 7050QX2-32S, 7050QX-32S and 7050QX-32

High Performance

- 2.56 Tbps system capacity
- 1.44 billion packets per second
- Wire speed unicast & mcast
- Class leading latency
- High density 10G/40G
- Dynamic buffer allocation
- Under 5W per 40G port

Feature Rich

- High Availability
- DC optimized airflow
- Rich L2 and L3 features
- 64-Way MLAG
- 64-Way ECMP
- VXLAN gateway and routing
- Zero Touch Provisioning
- Smart System Upgrade

High Scalability

- System scalability
- 32 x 40G QSFP+
- 4 x 10G SFP+
- Up to 96 x 10G + 8 x 40G
- Scalable leaf spine designs
- MAC up to 288K
- Host Routes up to 208K
 - Routes: 16K IPv4 / 8K IPv6
 - UFT – IPv4/v6 144K/77K
 - Multicast Routes up to 104K

Advanced Monitoring

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

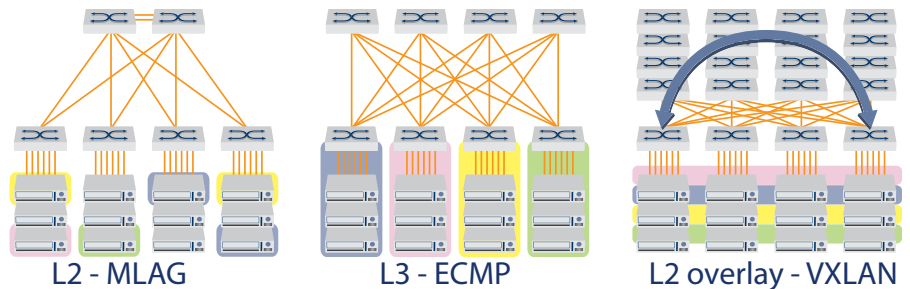
Arista 7050QX Series Introduction

The Arista 7050 Series are the benchmark for performance, scale and power efficiency in 1RU data center switches. The Arista 7050X Series extends the industry leading 7050 Series with increased performance, scalability, density and features designed for software defined networking.

The 7050QX series offer the same wire-speed low latency and high performance switching capabilities common across the entire 7050X family. The 7050X series are a range of compact 1RU 40GbE and 10GbE scalable, multilayer switches powered by Arista EOS, the worlds most advanced network operating system.

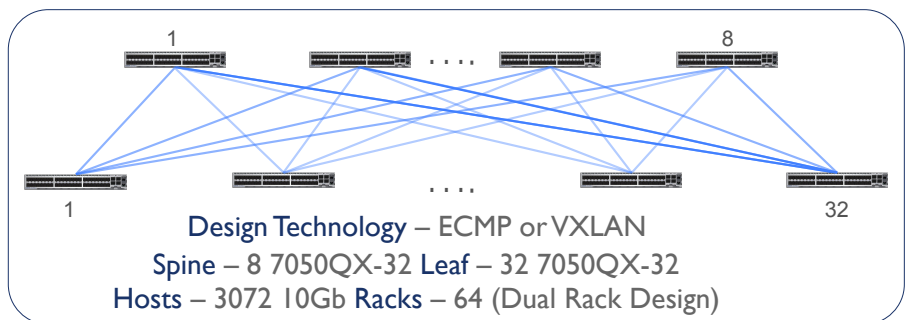
Developing Scale-out Networks

Scale out network designs allow solutions to start small and expand over time; simple highly scalable two-tier network designs are built with MLAG, ECMP and VXLAN technologies. The Arista 7050QX series provide the ideal platform to develop a high performance data center with a pay-as-you-grow approach.



Regardless of the underpinning technology Data Center network should be developed in as few tiers as possible, maximizing performance, simplicity and determinism, while reducing capital expenses and TCO. Industry standard requirements necessitate a 2 tier leaf/spine or a single tier Spline approach.

Incorporating 32 40GbE or 96 10GbE & 8 40GbE interfaces into a single wire speed 1RU platform the 7050QX switches enable the creation of dense 2 tier designs that incorporate open standards, programmability, monitoring and visibility tools.



The Arista universal network architecture is optimized for all application types ranging from large cloud to enterprise deployments

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.

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
64-way ECMP and LAG	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 both 10G and 40G 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

7050QX Series Systems

Arista 7050X 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.

	7050QX-32	7050QX-32S	7050QX2-32S
Interface Type	QSFP+	SFP+ / QSFP+	SFP+ / QSFP+
10G Ports	Up to 96	Up to 96	Up to 96
40G Ports	Up to 32	Up to 32	Up to 32
Rack Units	1	1	1
Buffer	12MB		16MB
Latency	550ns		
Airflow	F-R / R-F		

7050QX2-32S and **7050QX-32S**— 1RU, 4 SFP & 32 QSFP+, provides the flexibility of up to 32 40GbE or up to 8 40GbE and 96 10GbE ports, including up to 4 native SFP+, further diversifying interface options or optic availability. The 7050QX2-32S delivers line rate VXLAN routing in single pass.



7050QX-32 — 1RU, 32 QSFP+ ports supports a flexible combination of 96x 10GbE and 8 40GbE or up to a full 32x 40GbE ports.

