Hewlett Packard Enterprise

Digital data sheet

Arista 7280R2 30QSFP28 Algomatch-2 Expanded L3 Front-to-Back AC Switch (JQ208A)

Switches

What's new

- Dynamic Deep Buffers and Virtual Output Queing (VOQ) for lossless forwarding.
- Flexible design choices for delivering 10GbE, 25Gbe, 40GbE, 50GbE and 100GbE.
- Arista FlexRoute and EOS NetDB for Internet peering with high density and low

Overview

The Arista 7280R Data Center Switch Router Series are designed for storage, content delivery, leaf and spine networks and data center interconnects. This solution's fixed-configuration switches combine dynamic and deep buffering for lossless forwarding with high density, internet scale table sizes and comprehensive Layer 2 and Layer 3 features. Advanced Extensible Operating System (EOS) features for network monitoring, precision timing, VXLAN network

power.

- Arista AlgoMatch for flexible and scalable network policy control.
- Accelerated sFlow for high-capacity network security and application monitoring.
- EOS open programmability for advanced traffic control, provisioning and monitoring.

virtualization and rich automation are combined with extensive hardware resources. A choice of density and interface types allows this router series to address the myriad different applications and traffic patterns found in modern data centers.

Features

Scaling Data Center Performance

Arista 7280R Data Center Switch Router Series delivers non-blocking switching capacity that enables dramatically faster and simpler network designs for data centers and lowers both capital and operational expenses.

Series of fixed and modular systems with a single consistent Arista Extensible Operating System (EOS) allows for flexible selections at all tiers of the network and deployment scenarios including Layer 2 MLAG, Layer 3 ECMP, VXLAN overlay, and Internet peering.

The Arista FlexRoute engine provides the flexible scalability to support deployment as a routing platform with Internet scale routing.

Designed for the Data Center

Arista 7280R Data Center Switch Router Series delivers a suite of advanced traffic control and monitoring features to improve the agility of modern high-performance environments, with solutions for automation and virtualization.

Automates complex IT workflows and simplifies network operations while reducing or even nearly eliminating downtime.

Addressing the needs of one of the largest public cloud environments as well as applying those lessons learned in the turnkey Arista CloudVision automation offering.

Arista Extensible Operating System (EOS)

The Arista 7280R Data Center Switch Router Series features Arista EOS, which 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.

Arista EOS automates complex IT workflows and simplifies network operations while reducing downtime. It's rich automation capabilities not only reducing the human error element in network operations but also enables IT operators to make the network work the way they want.

Technical specifications

Arista 7280R2 30QSFP28 Algomatch-2 Expanded L3 Front-to-Back AC Switch

Product Number (SKU)	JQ208A
Differentiator	30 QSFP28 ports, Algomatch-2 functionality and accelerated sFlow, over 256K routes, MPLS and VXLAN, expanded memory, front-to-back circulation, dual AC power supplies
Ports	(32) QSFP28 ports
Memory and processor	System memory: 32 GB Flash memory: 4 GB Packet buffer: 12 GB
Latency	from 3.8 s
Throughput	up to 6 Tbps/2.51 Bpps
Input voltage	100-240V AC
Power Consumption	565W (maximum)
Minimum dimensions (H x W x D)	4.4 x 48.3 x 67 cm
Weight	15.5 kg

For additional technical information, available models and options, please reference the QuickSpecs

HPE Pointnext

HPE Pointnext leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes – Advisory, Professional, and Operational Services is designed to help you evolve and grow today and into the future.

Operational Services

- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalise deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

Advisory Services includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

Professional Services helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

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PSN1010561204UKEN, July 16, 2019.

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