

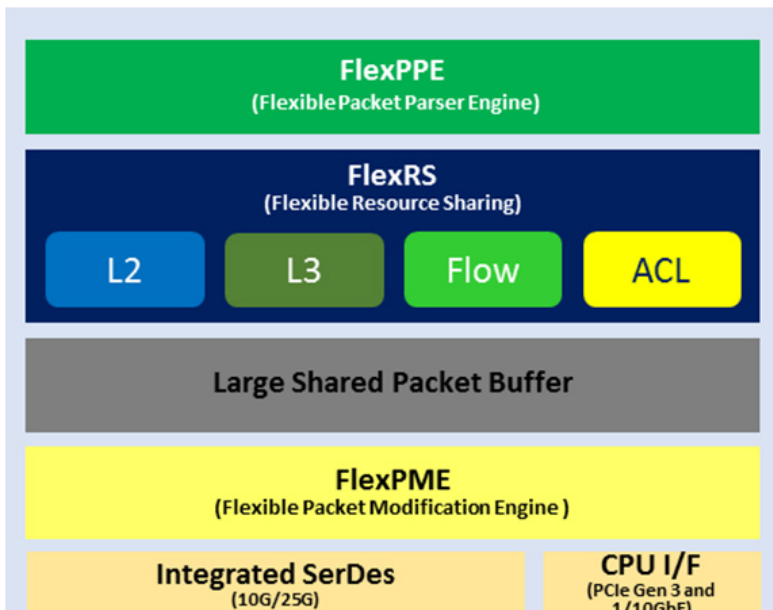


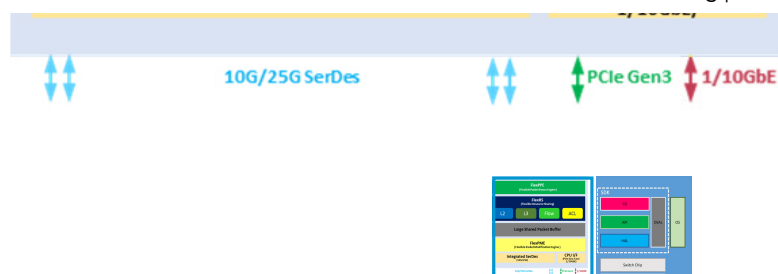
PRODUCTS

# Aurora 705

- ✓ • Intel Xeon D-1527 CPU
- ✓ • ONIE Pre-loaded
- ✓ • Nephos Taurus NP8367
- ✓ • 32 × 100G
- ✓ • ONL ready

Description	Specification
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The Aurora 705 series is suited for Top-of-Rack/Spine Datacenter, Enterprise, and Cloud Service Provider network deployments with its wire speed L2/L3 switching and consistently low latency.

32x100GbE ports are backed by Nephos Taurus ASIC, each supporting 1 x 100 GbE or 1x 40 GbE or via breakout cables 4 x 25 GbE or 4 x 10 GbE.

The switch is loaded with ONIE installation environment for disaggregated networking, supporting an easy installation of any compatible NOS at any scale.

For the development purpose, the Aurora 705 offers a feature-rich SDK with:

- ✓ Extensibility
- ✓ Hardware Abstraction Layer across multiple chips
- ✓ Portability
- ✓ OS-independent: OS Abstraction Layer
- ✓ Endian agnostic
- ✓ 64-bit-addressing
- ✓ Easy to Debug
- ✓ APIs to trouble-shoot SDK problems
- ✓ APIs for chip diagnostic

## Programmability

- ✓ Wire-speed programmable deep packet classification, flexible and recursive match/result-actions, packet generation/modification, fungible match and result memory including real-time instrumentation, packet diagnostics, and state updates
- ✓ Advanced L2-L5 programmable entropy with micro and jumbo flow-steering for better fabric utilization
- ✓ Larger Service Scale: >800K IP addresses, >70K ACLs, push > 10 labels (MPLS or user-defined)
- ✓ Granular Fungible Memories for all Tables and database result Memories (Flexible Shared Data structures for Forwarding, QoS, Instrumentation, and Security)

## Leaf-Spine architecture

- ✓ Aurora 705 is great for Spine tier, you can achieve a number of advantages over traditional Core/Aggregation/Access approach:
- ✓ Two-tier fabric with near-optimal subscription ratio
- ✓ Easy scale to hundreds of nodes

- ✓ Energy Efficient
- ✓ Low latency

## Performance

- ✓ 32x 100/50/40GbE QSFP28 ports in 1 RU  
Up to 128x 25/10G SFP28 port via break-out cables
- ✓ 3.2Tbps Nephos Taurus NP8367
- ✓ 28MB packet buffer size
- ✓ Intel® Xeon® Processor D-1527 quad core processor for application deployment
- ✓ Up to 16GB of DDR4 memory (8GB default)

## Reliable hardware platform

- ✓ Redundant 1200W 1+1 power supplies
- ✓ Redundant N+1 cooling

## Network OS (NOS) options

- ✓ Open Network Linux is a Linux distribution for "bare metal" switches, that is, network forwarding devices built from commodity components. ONL uses ONIE to install onto on-board flash memory. Open Network Linux is a part of the Open Compute Project and is a component in a growing collection of open source and commercial projects.
- ✓ Microsoft SONiC - a collection of networking software components required to have a fully functional L3 device. It is designed to meet the requirements of a cloud data center. It is fully open-sourced at OCP.



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