



Hyve Solutions NexLink™

Custom AI Network Switch

Ultra-high Performance and Low-latency Network Switch for Next-Gen Data Centers and Open Compute Environments

Build high-bandwidth fabrics with predictable behavior. Hyve Solutions NexLink™ provides 64x 800GbE ports and 51.2 Tbps switching capacity in a 2RU air-cooled design, supporting lossless low-latency forwarding and open NOS deployment via ONIE/SONiC.

Key Features

- 64 x 800GbE OSFP Ports
- Switching Capacity 51.2 Tbps
- 2RU Fixed Form Factor, Air-cooled
- Designed for AI/ML Clusters, Cloud Computing, Large-scale Enterprise
- Supports Ultra-high Performance, Low Latency and High Reliability
- Advanced Adaptive Routing, Dynamic Load Balancing and Lossless Low-latency Forwarding
- Support for Clos and non-Clos Topologies such as Dragonfly
- Open Network Install Environment (ONIE) Software Installer
- Compatible with Open Source NOS Including SONiC

System Specifications

CPU & Storage

Modular CPU: Intel® Xeon® 6 (Granite Rapids-D) HCC
Memory: DDR5 32GB
Storage: 128GB M.2 2230 NVME SSD

Optional

BMC: AST2600
TPM 2.0: Infineon OPTIGA TPMSLB9673
RTC

Management

Management Ports: 2x SFP28 + 1x RJ-45 1000BaseT
Console Port: 1x RJ-45 Serial

Mechanical

Dimensions (W x D x H): 438 x 650 x 87.3mm
Weight: 23 kg

Thermal

Thermal Solution: Air Cooled, Front-to-Rear
System Fan: 4x Sunon Fans
3+1 Redundant & Hot-swappable

Switching

Switch ASIC: Broadcom BCM78900 (Tomahawk 5)
Switching Capacity: 51.2 Tbps
Packets/Sec: 20.3 Bpps
Packet Buffer: 168MB
Data Ports: 64 x 800GbE OSFP
Data Port Support: 1 x 800G, 2 x 400G, 4 x 200G, 8 x 100G
100G PAM4, 50G PAM4, 25G NRZ
512 x 100G SerDes

Power

Power Supply: 2x 3200W PSUs
1+1 Redundant & Hot-swappable
Max Power: 3200W

Power Supply

AC Input Voltage: 200 - 240V, 50~60Hz
Typical Input Current: 16A/250Vac
AC Input Connector: C20
Output Power: 2436 W@180~229 Vac
3168 W@230~264 Vac

Software

NOS: ONIE, SONiC Compliant

Compliance

EMC: FCC Class A
EN 55032
EN IEC 61000-3-2:2019
EN 61000-3-3
EN 55035
EN 300 386
EN 62368-1:2014 + A11:2017
IEC 62368-1:2014

Safety

UL (CSA 22.2 No 62368-1; UL 62368-1)
CB (IEC/EN 62368-1)

Certifications

CE (European Union)
2012/19/EU WEEE Directive
2011/65/EU RoHS Directive

Environmental

Operation Temperature: 0 to 40 C
Storage Temperature: -30 to 60 C
Operating Humidity: 10% to 90% RH (Non-condensing), 28 C Max Wet Bulb
Altitude: 0-1000m

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