

# NVIDIA Mellanox MSN4700-WS2R (920-9N301-00RB-0X0)

Kod producenta: 920-9N301-00RB-0X0



Technology	400Gb Ethernet
400GbE ports	32
Connector Type	QSFPDD
Airflow	Front to back
Operating System	Onyx

## NVIDIA MSN4700-WS2R Spectrum-3 Based 400GbE 1U Open Ethernet Switch with Onyx 32 QSFPDD Ports 2 Power Supplies (AC) x86 CPU Standard Depth C2P Airflow Rail Kit

### SN4700 Series Switches

The SN4700 spine/super-spine offers 32 ports of 400GbE in a compact 1U form factor. It enables connectivity to endpoints at varying speeds and carries a throughput of 25.6Tb/s, with a landmark 8.4Bpps processing capacity. As an ideal spine solution, the SN4700 allows maximum flexibility, with port speeds spanning from 1GbE to 400GbE per port.

### Visibility

- NVIDIA What Just Happened (WJH) telemetry dramatically reduces mean time to issue resolution by providing answers to: When, What, Who, Where and Why
- Hardware-accelerated histograms track and summarize queue depths at submicrosecond granularity
- Inband Network Telemetry (INT)-ready hardware
- Streaming Telemetry
- 512K on-chip flow counters

### Performance

- Fully shared packet buffer provides a fair, predictable and high bandwidth data path
  - Consistent and low cut-through latency
  - Intelligent hardware-accelerated data movement, congestion management & load balancing for RoCE & Machine learning applications that leverage NVIDIA GPUDirect
  - Best-in-class VXLAN scale-10X more tunnels and tunnel endpoints
  - 512K shared forwarding entries flexibly shared across ACL, LPM routes, host routes, MAC, ECMP and
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tunnel applications

- Up to 1M IPv4 route entries

### **Agility**

- Comprehensive Layer-2, Layer-3 and RoCE
- Advanced network virtualization with high performance single pass VXLAN routing and IPv6 segment routing
- Cloud Scale NAT - 100K+ sessions
- Programmable pipeline that can programmatically parse, process and edit packets
- Deep Packet Inspection - 512B deep

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