

## Managed Switch NX-7550-2X32QM



### OVERVIEW

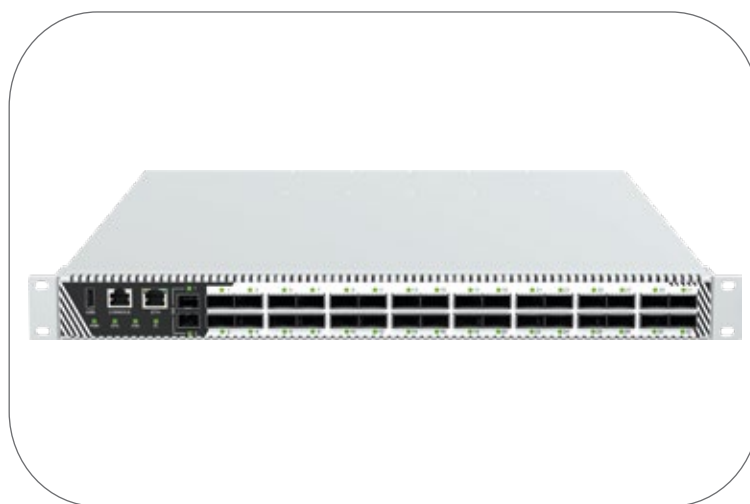
NX-7550-2X32QM Leaf/Spine switch delivers unprecedented 32 x QSFP56-DD 400Gpbs ports in single rack unit of space, is ideally suited for deployment where high performance is the most important, or, with 12.8Tbps total performance – as an ultra-powerful appliance.

NX-7550-2X32QM is primarily packaged to meet the requirements of deployments that require smaller form factor and access to all network ports and management ports from the front side of the product. It provides total of 32x400GbE + 2x10GbE ports.

In order to be able to fit all access, uplink and data ports on the front side of a 1U system, all data plane connectivity to NX-7550-2X32QM is provided through QSFP56-DD sockets. Each QSFP56-DD socket can operate as a single 400GbE port, or with a break-out splitter cable a number of up to eight lower speed ports. QSFP56-DD sockets support 400GBASE-SR8, 400GBASE-FR8, 400GBASE-LR8, 400GBASE-ER8 and 400GBASE-DR4 physical interfaces.

### FEATURES HIGHLIGHTS

- Cut-through with ultra-low-latency
- 32 x 400Gbps QSFP56-DD in 1U form factor
- 256 x 56Gbps High Speed Serdes MAC in a single PFE Packet Forwarding Engine that support 1/10/25/56 port speed modes
- 2 x 10Gpbe SFP+ and 1 x GbaseT RJ45 Management Plane Ports
- Six hot-swappable FAN AFI/AFO
- Two hot-swappable PSU



## Managed Switches NX-7550-2X32QM



### TECHNICAL SPECIFICATIONS

SPECIFICATIONS	NX-7550-2X32QM
Management port	1x RJ45 100/1000Base-T out-of-band 1x RJ-45 Console 1x USB Type A
Switch ASIC	Nodexon Aldrin 98DX8548
CPU	Intel Broadwell-DE D1508
Memory	Default 8GB DDR4 Max 32GB DDR4
Storage	16GB eMMC NAND FLASH SSD module optional
Power supply units	2 x 100-240 VAC, 550W Redundant, hot swappable
Power consumption	520W max
Fan unit	5 (4+1 redundant) Hot swappable
Form factor and dimension	1 RU(W) 445mm x (D) 470mm x (H) 44 mm
Weight(NW)	9.6 kg
Operating temperature	0°C- 45°C
Storage temperature	-40°C- 70°C
Operating humidity	5% - 95% (non-condensing)
Storage humidity	5% - 95% (non-condensing)
Operating altitude	3000m max
Safety regulation compliance	UL/CSA, cUL, CB
Switching Capacity	4.0 Tbps
Forwarding Rate	2.9 Gpps
Jumbo frames	Yes
Packet Buffer Size	24 MB
Transmit Descriptors	192 K
Bridge FDB Entries	Up to 256K
Router IPv4 Host Entries	Up to 256K
Router IPv6 Host Entries	Up to 128K



## Managed Switches NX-7550-2X32QM



### TECHNICAL SPECIFICATIONS

SPECIFICATIONS	NX-7550-2X32QM
Router LPM	IPv4 - up to 512K unicast prefixes IPv6 - up to 256K unicast 64-bit prefixes
TCAM Resources	36K x 10B rules (18K x 10B per dual control pipe)
Virtual Ports (ePorts)	8K
Bridge Domains (eVLANs)	Up to 8K
Multicast Physical Port Groups (VIDX)	Up to 4K
Multicast Virtual Port Groups (eVIDX)	16K
Multicast Linked List (MLL) Entries	16K
Tunnel-Start/ARP Table	Up to 192K ARP entries Up to 48K Non-IPv6 Tunnel-Start entries Up to 24K IPv6 Tunnel-Start entries
Router Next Hop Entries	24K
Router ECMP Groups	12K
ePort ECMP Groups	16K
Trunk ECMP Group	Up to 4K
L2 ECMP Table	16K ECMP members Each ECMP group may contain up to 4K EMCP members
Hardware OAM Flows	16K ECMP members 4K OAM flows (1K OAM flows per control pipe)
Spanning Tree Groups	Up to 4K

#### USA

Tel +1-877-6774040  
info@nodexon.com  
Williams Tower, 41st Floor, 2800 Post  
Oak Boulevard, Houston, TX 77056, USA

#### EUROPE

Tel +44-20-37695558  
uk@nodexon.com  
86-90 Paul Street, London, England,  
United Kingdom, EC2A 4NE

#### MIDDLE EAST

Tel +971 4 556 1557  
mena@nodexon.com  
Boulevard Plaza Tower One, Level 3,  
Downtown Dubai, United Arab Emirates

