

NADDOD N6300 Series Switches

Product introduction

Located at the Spine/Leaf layer of the scenarios of traditional cloud center and SDN cloud center, Naddod N6300 series switches are new generation 25G/100G data center switches, which are launched by Naddod Network for cloud data center. The switches are suitable for abundant scenarios such as artificial intelligence, distributed memory, high-performance computation, multi-site cloud center, etc., and can fully meet the high-performance, high-usability, intelligentized and visualized network demands of users.

Features and advantages

Comprehensive cloud center network function:

- Naddod N6300 series switches can provide 48x10G/25G ports and 8x40/100G QSFP28 ports and 32 40G/100G ports in two forms (simple ports may support dividing 1 into 4x25G ports or 2x50G ports) at most, L2/L3 full line speed forwarding.
- N6300 series may provide strong cache capacity, can effectively deal with the burst/sharply increased traffic of cloud center, and ensure that the requirements of cloud center for congestion-free transmission of high traffic data are met, meeting the Spine-Leaf full layer 3 network architecture design requirements.
- N6300 series have abundant layer 3 IPv4/IPv6 routing protocols and multicast protocols, support standard-based VxLAN EVPN switching function, and may construct SDN solutions leading in the industry.

NAT (Network Address Translation):

- Naddod N6300 series switches support NAT (Network Address Translation) protocol, can save IP address resources, and meet the link demand of internal and external networks, so as to rapidly realize the business deployment of computation resources, ensure the invisible internal network architecture, and enhance the convenient operation and maintenance.

Low-latency, constructing lossless network:

- Naddod N6300 series switches support advanced remote direct memory access RDMA (RoCE) technology, may help users reduce deployment costs, improve the overall CPU

utilization, and reduce the computation and storage traffic delays in the network, so as to acquire higher return on investment in the traditional and modern agile infrastructure.

- Naddod N6300 series switches support PFC/ECN and other network traffic control technologies, construct end-to-end, lossless, low-latency forwarding RDMA (Remote Direct Memory Access) basic bear-network, and meet the network deployment requirements of application scenarios such as artificial intelligence, high-performance computation, distributed memory, big data, etc.

High reliability, imperceptible fault business

- Naddod N6300 series switches support M-LAG (Multichassis Link Aggregation Group), can realize the link aggregation among a number of devices and thereby ensure device-level links to form a dual-active system, which brings significantly advantages in scalability, reliability, overall architecture and usability.
- Unique control plane is designed to be independent and separated from the forwarding plane. The fault domain is isolated. When a switch fails, all data will be transmitted through another switch to ensure high reliability of your network. Even during the upgrade progress, each node of M-LAG is upgraded independently, and client won't be aware of business interruption. This provides low risk and fast efficiency.
- N6300-48Y8C has independent BMC module design, can monitor the CPU, memory and other information of devices, and can monitor the state of devices even during the device reboot.

Programmable, and flexible customization

- Naddod N6300 series switches support Open API interface, such as Neutron, OVSDB interface and Python language programming, can deeply integrate with the cloud platforms dominating in the industry and third parties, meet business function abutment and flexible expansion, and realize automatic operation and maintenance, so as to reduce the investment costs of customers.

Product specifications

Hardware specifications

Part No.		N6300-32C	N6300-48Y8C
Fixed ports		32*40G/100G QSFP28 ports	48*25G SFP28 ports, 8*40/100G QSFP28ports
Input voltage	AC	Operating voltage: 100 ~ 240V; 50~60Hz Maximum voltage: 90 ~ 264V; 47~63Hz	

Part No.	N6300-32C	N6300-48Y8C
DC	240V HVDC	
Power supply Module	2	
Fan Module	4, hot-pluggable, front-rear intake and exhaust	
Chassis size (H×W×D)	44 X 470 X 441mm	44 x 470 x 448mm
Weight	13kg	10kg
Power supply Power	550W	
Chassis Power	MIN: 120W, MAX: 380W	
Operating temperature range	0 to 45 °C	
Operating humidity	5%~95%	

Software specifications

Part No.	N6300-32C	N6300-48Y8C
Device virtualization	Support Multi-chassis Link Aggregation Group (M-LAG)	
Network virtualization	Support VxLAN Layer 2 and Layer 3 gateway Support BGP-EVPN Support GRE Tunnel	
SDN controller*	Support ICE Controller	
Cloud center features	Support VxLAN Mapping, Support RoCE v2 lossless network Support PFC、ECN	
Programmable*	Support Python, Open API	
VLAN	Support Access、Trunk、Hybrid mode Support VLAN division based on MAC, IP and protocol	
MAC features	Support MAC address automatic learning and aging Support Static and dynamic and black hole MAC Support MAC address flapping detection Support MAC address learning limit based on port and VALN	
IP routing	Support IPv4: static routing, RIPv1&v2, OSPF, BGP, ECMP Support PBR, uRPF detection and VRF Support IPv6: static routing, RIPv6, OSPFv3, ICMPv6, NDP	
IPv6 features	Support IPv6 ND (Neighbor Discovery) Support NDP Support IPv6 Ping、IPv6 Traceroute、IPv6 Telnet Support IPv6 ACL Support ICMPv6	
Multicasting	Support Multicasting protocols such as IGMP, PIM-SM, PIM-DM Support IGMP Snooping Support IGMP Proxy Support MLD v1/v2, MLD Snooping and PIM-SMv6	

<p>QoS/ACL</p>	<p>Support Speed limit to the inbound and outbound Support 8 queues per port Support The queue scheduling modes: SP, WDRR, SP+WDRR Support Port/VLAN/flow-based flow monitoring Support Re-marking of the 802.1p and DSCP priority of packets Support L2 (Layer 2)-L4 (Layer 4) packet filtering function. Provides the packet filtering function Based on source MAC address, destination MAC address, source IP address, destination IP address, source/destination interface number for the TCP/UDP protocol, protocols and VLAN Support WRED</p>
<p>Reliability</p>	<p>Support LACP Support STP, RSTP and MSTP Support BPDU protection, root protection, ring protection Support M-LAG Support Smart Link Support VARP Support VRRP</p>
<p>Security features</p>	<p>Support Hierarchical command line protection, unauthorized users cannot log in Defense the attack of DDOS, ARP and ICMP Support Port isolation and port security Support IP+MAC+port+VLAN Combination bundling Support IEEE 802.1X authentication Support AAA authentication, RADIUS authentication, TACAS+ authentication Support IP Source Guard Support Port isolation Support watchdog</p>
<p>Flow monitoring</p>	<p>SFlow</p>
<p>Management and maintenance</p>	<p>Support Command line interface (CLI) configuration Support Terminal services such as Console, Telnet, SSH, etc. Support SNMP v1/v2c/v3 and other network management protocols Support Ping, traceroute Support Uploading and downloading files through FTP and TFTP Support RMON Support local and remote mirroring, 1:N mirroring Support system logs, hierarchical alarms Support Power supply, fan and temperature alarms</p>

Ordering information

Part No.	Product Description
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N6300-32C	N6300-32C switch, 32*40G/100G QSFP28 ports, 3+1*redundant fans, 2*power supplies, system OS.
N6300-48Y8C	N6300-48Y8C switch, 48*25G SFP28 ports and 8*40/100G QSFP28 ports, 3+1*Redundant fans, 2*power supplies, system OS.

Further Information:

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Disclaimer

1. We are committed to continuous product improvement and feature upgrades, and the contents contained in this manual are subject to change without notice.

2. Nothing herein should be construed as constituting an additional warranty.

3. NADDOD assumes no responsibility for the use or reliability of equipment or software not provided by NADDOD.

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