

NADDOD S3200P Series Switches

Product introduction

Naddod S3200P series switches are brand new layer 3 1G Ethernet switches launched by Naddod Network. The switches provide flexible full 1G access and 10G uplink ports featured by high cost performance. With enhanced layer 3 function, intelligent PoE management, mature IPv6 features and other characteristics, the switches are widely used in the access and aggregation of the high-quality edge networks, access to cloud center and many other application scenarios, delivering flexible networking and easy maintenance.

Features and advantages

Naddod S3200P series switches are featured by:

- 24/48 1G Ethernet ports that support line speed forwarding
- 4 SFP + uplink
- Permanent PoE, which may supply power uninterruptedly for connected devices, and can also supply power even during the start-up of the switches
- Layer 3 routing protocol, and strong multiple business support ability
- Impeccable security control strategy
- Flexible Ethernet networking capacity

Intelligentized and enhanced Ethernet power supply (only POE model)

Naddod S3200P series switches support intelligentized and enhanced Ethernet power supply:

- IEEE 802.3af, IEEE 802.3at standard power supply, and the ports can supply power of 30W power at most, which may reduce the total cost of ownership of deployment;
- PoE intelligent power management function, including enabling disabling interface power supply, interface output power configuration, device power priority configuration, power overload protection, over-temperature protection, etc.
- PoE intelligent power supply function, including timing power supply, regular PD restart, PD connectivity monitoring and restart in case of loss of communication.

- Permanent PoE, which may maintain PoE power supply during the reloading of switches. This is critical for medical devices and other important terminals, as well as lightning system whose power is supplied by PoE and other Internet of Things terminals, and can ensure that interruption won't occur during the restart of the switches.

Intelligent virtualization technology

Naddod S3200P series switches support intelligent virtualization technology, realize link aggregation among a number of devices by M-LAG (Multi-chassis Link Aggregation Group) and thereby ensure device-level links to form a dual-active system, which brings significantly advantages in scalability, reliability, overall architecture and usability. M-LAG can bring the following benefits to users:

- **Simplified business:** With the M-LAG Multi-chassis Link Aggregation Group technology to supersede the prior spanning tree protocol, considerable protocol packet-based interaction between devices can be reduced, network operation can be simplified, and duration of convergence during network turbulence can be shortened.
- **High-reliability:** The control plane is 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.
- **Imperceptible business upgrade:** During the upgrade process, client won't be aware of business interruption. This provides low risk and fast efficiency.

Impeccable security control strategy

Naddod S3200P series switches provide a series of impeccable security control strategies, which may support abundant ARP defense function, such as dynamic ARP detection, realize user legality check function and ARP message validity check function, and avoid the impact of a large number of ARP messages on CPU through ARP rate-limit, etc.

Naddod S3200P series switches support AAA, Dot1X, TACAS+, RADIUS authentication, support dynamic or static binding of user account, IP, MAC, VLAN, port and other user identification elements, and flexibly adapt to the multiple authentication demands of network environment.

Through establishing and maintaining DHCP Snooping binding table, Naddod S3200P series switches directly discard the illegal messages that fail to meet the items in the table. Taking advantage of reliable port feature of DHCP Snooping, Naddod S3200P series switches ensure the

legality of DHCP server.

Abundant QoS functions

Naddod S3200P series switches support L2 (Layer 2)-L4 (Layer 4) packet filtering function, and provide the packet filtering function based on source MAC address, destination MAC address, source IP address, destination IP address, interface number for the TCP/UDP protocol, category of protocols and packet classification of VLAN. Naddod S3200P series switches provide flexible queue scheduling algorithm, which can be set based on port and queue at the same time, supporting three modes of SP, WDRR, SP+WDRR.

Naddod S3200P series switches support in out ACL, traffic supervision CAR function, and in/out direction port/stream image, are used to monitor the messages on the specified ports, and copy the data packet on the port to the monitoring port, so as to carry out network detection and fault removal.

Multiple reliable protections

Naddod S3200P series switches support overcurrent protection, overvoltage protection and overheating protection technologies.

Naddod S3200P series switches support module dual power and dual fan components, power modules and fan modules are hot-pluggable and don't affect the normal operation of devices.

Naddod S3200P series switches support the fault detection and alarming of power supply and fan, and can automatically adjust the rotate speed of the fan based on the change in temperature.

Naddod S3200P series switches support Spanning Tree Protocol (STP), IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP), and fully ensure rapid convergence, improve fault tolerance, ensure stable network operation, link load balancing, and reasonable usage of network channels and improve redundant link usage rate.

Naddod S3200P series switches support Virtual Routing Redundancy Protocol (VRRP) to effectively ensure network stability.

When disabling STP, the UplinkFast protection function can be provided through the UplinkFast protection protocol SmartLink, so that even STP is disabled, basic link redundancy as well as millisecond fault recovery that is faster than the STP can still be provided.

Simple operation and maintenance management

The series switches support abundant management interfaces, such as Console interface, USB interface, independent out-of-band network management interface.

This series switches support SNMPv1/v2c/v3 and various management methods, such as NDD IDE network management. Diversified management methods provide easy maintenance.

This series switches support port local image and remote image, and meanwhile support sFlow function, sample data packets on the network, and provide accurate network traffic monitoring, statistic analysis and control for high speed network.

Product specifications

Part No.	S3200P-24T4X	S3200P-48T4X
Fixed ports	24*10/100/1000M RJ45 ports(including 4* combo ports),4*10G SFP+ ports	48*10/100/1000M RJ45 ports, 4*10G SFP+ ports
POE	IEEE 802.3at POE+ power supply standard	
Console	1	
OOB Mgmt.	1	
USB	1	
MAC features	Support Max 16K MAC address capacity Support Follow IEEE 802.1d standard Support MAC address automatic learning and aging Support Static and dynamic and blackhole MAC Support MAC address flapping detection Support MAC address learning limit based on port and VALN	
VLAN features	Support 4K VLANs Support VLAN division based on port, MAC, subnet and protocol Support Basic QinQ Support Private VLAN Support Voice VLAN Support Guest VLAN Support VLAN statistics	
Link aggregation	Support 1G/10G port aggregation Support Static and dynamic link aggregation	
Jumbo Frame	9600	
Port features	Support IEEE802.3x flow control (full-duplex) Support Storm suppression based on port rate percentage Support Storm suppression	
Virtualization	Support Multi-chassis Link Aggregation Group (M-LAG)	
IP routing	Support IPv4 static routing, RIPv1/2, OSPFv2, IBGP/EBGP Support IPv6 static routing, RIPng, OSPFv3	

Part No.	S3200P-24T4X	S3200P-48T4X
	Support ECMP, routing strategy, VRF	
Ring network protection protocol	Support SmartLink tree topology and SmartLink multi-instance Support The ERPS Ethernet ring protection protocol Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) Support BPDU protection, root protection and loopback protection	
IPV6 features	Support IPv6 ND (Neighbor Discovery) Support NDP Support IPv6 Ping、IPv6 Tracert、IPv6 Telnet Support IPv6 ACL Support ICMPv6	
Multicasting	Support Static multicasting Support IGMP v1/v2/v3 Snooping Support IGMP Snooping Fast-leave	
DHCP	Support DHCP Client Support DHCP Snooping Support DHCP Relay Support DHCP Server Support DHCP Option82	
Flow monitoring	Support SFlow	
QoS/ACL	Support IEEE 802.1X authentication Support AAA authentication, RADIUS authentication, TACAS+ authentication 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 The CAR function Support WRED and tail drop congestion avoidance mechanisms	
Mirroring	Support Local mirroring Support Remote mirroring	
Security features	Support MAC address learning limit based on port and VLAN Support Illegal MAC Learning Defense Support User hierarchical authority management and password protection Support Defense the attack of DDOS and ARP, CPU protection Support ACL filtering Support SSHv1/v2 Support Port isolation Support IP+MAC+port Combination bundling Support IP Source Guard	

Part No.	S3200P-24T4X	S3200P-48T4X
	Support Blacklist and whitelist	
Reliability	Support LACP Support Multi-chassis Link Aggregation Group (M-LAG) Support VARP Support VRRP Support LLDP	
Energy saving	IEEE 802.3az	
Management and maintenance	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, Tracert Support Uploading and downloading files through FTP and TFTP Support system logs, hierarchical alarms Support NTP Support LLDP Support Power supply, fan and temperature alarms	
Chassis Power	Min: 45W Max: 1*360W: 360W (PoE 315W) 2*360W: 720W (PoE 650W) 1*720W: 720W (PoE 675W) 2*720W: 1440W (PoE 720W) 1*1100W: 1100W (PoE 720W) 2*1100W: 2200W (PoE 720W) 1*360W+1*720W:1080W (PoE 720W) 1*360W+1*1100W: 1460W (PoE 720W) 1*720W+1*1100W: 1820W (PoE 720W)	Min: 60W Max: 1*360W: 360W (PoE 300W) 2*360W: 720W (PoE 650W) 1*720W: 720W (PoE 660W) 2*720W: 1440W (PoE 1370W) 1*1100W: 1100W (PoE 1040W) 2*1100W: 2200W (PoE 1440W) 1*360W+1*720W: 1080W (PoE 1010W) 1*360W+1*1100W: 1460W (PoE 1390W) 1*720W+1*1100W: 1820W (PoE 1750W)
Input voltage	100V~240V AC, 50/60Hz	
Power supply	2	
Chassis size (H×W×D)	43.6 X 460 X 440 mm	
Weight	5kg	5.5kg
Operating temperature range	0°C-50°C	
Operating humidity	10% ~ 90% (no condensation)	

Ordering information

Part No.	Product Description
S3200P-24T4X	S3200P switch, 24*10/100/1000M RJ45 PoE ports (IEEE 802.3af/802.3at power supply standard), including 4*combo ports, 4*10G SFP+ ports, 2*power supply slots, no power supply module.
S3200P-48T4X	S3200P switch, 48*10/100/1000M RJ45 PoE ports (IEEE 802.3af/802.3at power supply standard), 4*10G SFP+ ports, 2*power supply slots, no power supply module.

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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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