



## 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
<b>Fixed ports</b>	24*10/100/1000M RJ45 ports(including 4* combo ports),4*10G SFP+ ports	48*10/100/1000M RJ45 ports, 4*10G SFP+ ports
<b>POE</b>	IEEE 802.3at POE+ power supply standard	
<b>Console</b>	1	
<b>OOB Mgmt.</b>	1	
<b>USB</b>	1	
<b>MAC features</b>	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 learning limit based on port and VALN	
<b>VLAN features</b>	Support 4K VLANs Support VLAN division based on port, MAC, subnet and protocol Support Basic QinQ Support Guest VLAN Support VLAN statistics	
<b>Link aggregation</b>	Support 1G/10G port aggregation Support Static and dynamic link aggregation	
<b>Jumbo Frame</b>	9600	
<b>Port features</b>	Support IEEE802.3x flow control (full-duplex)	

Part No.	S3200P-24T4X	S3200P-48T4X
	Support Storm suppression based on port rate percentage Support Storm suppression	
<b>Virtualization</b>	Support Multi-chassis Link Aggregation Group (M-LAG)	
<b>IP routing</b>	Support IPv4 static routing, RIPv1/2, OSPFv2, IBGP/EBGP Support IPv6 static routing, RIPv6, OSPFv3 Support ECMP, routing strategy, VRF	
<b>Ring network protection protocol</b>	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	
<b>IPv6 features</b>	Support IPv6 ND (Neighbor Discovery) Support NDP Support IPv6 Ping、IPv6 Tracert、IPv6 Telnet Support IPv6 ACL Support ICMPv6	
<b>Multicasting</b>	Support Static multicasting Support IGMP v1/v2 Snooping Support IGMP Snooping Fast-leave	
<b>DHCP</b>	Support DHCP Client Support DHCP Snooping Support DHCP Relay Support DHCP Server Support DHCP Option82	
<b>Flow monitoring</b>	Support SFlow	
<b>QoS/ACL</b>	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	
<b>Mirroring</b>	Support Local mirroring Support Remote mirroring	
<b>Security features</b>	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	

Part No.	S3200P-24T4X	S3200P-48T4X
	Support ACL filtering Support SSHv1/v2 Support Port isolation Support IP+MAC+port Combination bundling Support IP Source Guard Support Blacklist and whitelist	
<b>Reliability</b>	Support LACP Support Multi-chassis Link Aggregation Group (M-LAG) Support VARP Support VRRP Support LLDP	
<b>Energy saving</b>	IEEE 802.3az	
<b>Management and maintenance</b>	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 Support network management system	
<b>Chassis Power</b>	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)
<b>Input voltage</b>	100V~240V AC, 50/60Hz	
<b>Power supply</b>	2	
<b>Chassis size (H×W×D)</b>	43.6 X 460 X 440 mm	
<b>Weight</b>	5kg	5.5kg
<b>Operating temperature range</b>	0°C-50°C	
<b>Operating humidity</b>	10% ~ 90% (no condensation)	

## Ordering information

Part No.	Product Description
S3200P-24T4X	S3200P-24T4Xswitch, 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-48T4Xswitch, 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.

## Further Information:

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## Disclaimer

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

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