



## NADDOD S2200 Series Switches

### Product introduction

Naddod S2200 series switches are new generation intelligent 1G Ethernet switches launched by Naddod Network, which are available for network management. The switches are designed for network environment featured by high-performance, high port density, high uplink rate and easy installation. The switches provide flexible 1G access and 10G uplink ports. With abundant security control and other features, the switches are widely used in the access businesses of the high-quality edge networks and cloud center, delivering flexible networking and easy maintenance.

### Features and advantages

Naddod S2200 series switches are featured by:

- Intelligent virtualization technology, imperceptible fault business
- Impeccable security control strategy
- QoS function
- Easy operations and maintenance management

### Intelligent virtualization technology

Naddod S2200 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:

- **High-performance:** M-LAG (Multi-chassis Link Aggregation Group) may improve the density of user ports, the bandwidth and the performance of devices.
- **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 S2200 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 S2200 series switches support DHCP Snooping, various access control technologies and user authentication security technologies of ACL, IEEE 802.1x, etc., and are able to flexibly adapt to the multiple authentication demands of network environment.

### QoS function

Naddod S2200 series switches support L2 (Layer 2)-L4 (Layer 4) packet filtering function, which 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 S2200 series switches provide flexible queue scheduling algorithm, which can be set based on port and queue at the same time. Naddod S2200 series switches support in out ACL, traffic supervision CAR function, port/stream image and other functions.

## Easy operations and maintenance management

This series switches support SNMP v1/v2c/v3 and SFlow v4/v5 management methods. Diversified management methods provide easy maintenance.

## Product specifications

Part No.	S2200-24T4X	S2200-48T4X
<b>Fixed ports</b>	24*10/100/1000M RJ45 ports, 4*10G SFP+ ports	48*10/100/1000M RJ45 ports, 4*10G SFP+ ports
<b>Console</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 black hole MAC Support MAC address learning limit based on port and VALN	
<b>VLAN features</b>	Support 4K VLAN Support VLAN division based on port, MAC, subnet and protocol Supports Access, Trunk, and Hybrid modes	
<b>link aggregation</b>	Support 1G/10G port aggregation Support Static and dynamic link aggregation	
<b>Virtualization</b>	Support Multi-chassis Link Aggregation Group (M-LAG)	
<b>IP routing</b>	Support IPv4: Static routing, RIPv1&v2, OSPFv2 Support IPv6: Static routing, RIPv6, OSPFv3 Support ECMP、VRF、VRRP Support IBGP、EBGP	
<b>Multicast</b>	Support IGMP snooping Support IGMP proxy Support Fast leave Support Layer 2 Static Multicast	
<b>Ring network protection protocol</b>	Support SmartLink tree topology and SmartLink multi- instance Support STP (IEEE 802.1d), RSTP (IEEE 802.1w), MSTP (IEEE 802.1s) Support BPDU protection, root protection, 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>DHCP</b>	Support DHCP Client Support DHCP Snooping Support DHCP Relay Support DHCP Server	

Part No.	S2200-24T4X	S2200-48T4X
<b>QoS/ACL</b>	Support IEEE 802.1X authentication Support AAA authentication, RADIUS authentication and TACAS+ authentication Support Speed limit to the inbound and outbound Support 8 queues per port Support queue scheduling modes such as SP, WRR, DRR, SP+WRR, and SP+DRR 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 Weighted Random Early Detection (WRED), tail-drop congestion avoidance mechanism	
<b>Mirroring</b>	Support Local mirroring Support Remote mirroring	
<b>Security features</b>	Support MAC address learning limit based on port and VALN 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 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 VRRP Support LLDP	
<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: 27W Max: 60W	Min: 37W Max: 60W
<b>Input voltage</b>	100V ~ 240V AC, 50/60Hz	
<b>Chassis size (H×W×D)</b>	44 x 440 x 160 mm	44 x 440 x 240 mm

Part No.	S2200-24T4X	S2200-48T4X
Weight	3.2 kg	3.5 kg
Operating temperature range	0°C-45°C	
Operating humidity	10% ~ 90% (no condensation)	

## Ordering information

Part No.	Product Description
S2200-24T4X	S2200-24T4Xswitch, 24*10/100/1000M RJ45 ports, 4*10G SFP+ ports, 1*220V AC power supply, system OS.
S2200-48T4X	S2200-48T4Xswitch, 48*10/100/1000M RJ45 ports, 4*10G SFP+ ports, 1*220V AC power supply, system OS.

## Further Information:

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## Disclaimer

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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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