

## AGNIGATE S3024 Series Switches Datasheet



**S3024-6X:** 24 Ports 2.5G L3 Managed Switch, with 24\*100/1000M/2.5GBase-T and 6\* 10G SFP+ Uplink Ports, Built-in 96W AC/DC power supply and built-in fan.

**S3024-6X-D:** 24 Ports 2.5G L3 Managed Switch, with 24\*100/1000M/2.5GBase-T and 6\* 10G SFP+ Uplink Ports, Built-in 150W AC/DC dual power supply, built-in fan

**S3024P-6X:** 24 Ports 2.5G L3 Managed POE++ Switch, with 24\* 100/1000M/2.5GBase-T (Max90w/port) and 6\* 10G SFP+ Uplink Ports, 380W POE power budget, built-in fan

**S3024PB-6X:** 24 Ports 2.5G L3 Managed POE++ Switch, with 24\* 100/1000M/2.5GBase-T (Max90w/port) and 6\* 10G SFP+ Uplink Ports, 750W POE power budget, built-in fan

### OVERVIEW

AgniGate S3024 Series routing switches, high-performance Layer 3 Ethernet switch with 2.5G Multi-Gigabit and 10G SFP+ Ports compact 1U form factor. The AGNIOS delivers robust feature support, Provide Layer 3 network features.

Built from the ground up with the combination of advanced hardware and software, the switch provides a Layer 3 routing solution for next generation SMB / Enterprise / Wi-Fi 6 AX Access/ high speed NAS networks.

### Varied Port Types

Support 100M/1G /2.5G /10G ports to meet different network requirements.

**Ultra-Long-Distance PoE++**

Optical-electrical synergy, implementing 300 m PoE+ (90W /Port) and 10 Gbit/s access for Wi-Fi 6 Aps and other PDs. Compatible 802.3af/at/bt standard.

**CHARACTERISTICS**

Product Name	S3024-6X	S3024-6X-D	S3024P-6X	S3024PB-6X
Ethernet Ports	- 24 *100M/1000M/2.5G BASE-T -6*10G SFP+			
PoE Ports	N/A	N/A	24*AF/AT/BT 90W Max	24*AF/AT/BT 90W Max
Power Supplies	96W AC to DC power supply, 100Vac-240Vac Input, 12Vdc Output	2*150W AC to DC power supply, 100Vac-240Vac Input, 12Vdc Output	450W AC to DC power supply,100Vac-240Vac Input, 400W 54Vdc Output, 50W 12Vdc Output.	880W AC to DC power supply,100Vac-240Vac Input, 800W 54Vdc Output, 80W 12Vdc Output.
POE power budget	N/A	N/A	380W	750W
Management Ports	1*Console Port (RJ45)			
Fans	3* Fan	3* Fan	4* Fan	5* Fan
Airflow	Front to Rear			
Flash	128Mb			

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DRAM	4Gb			
Switching Capacity	240Gbps			
MAC address	32K			
Size	440mmx290mmx43.6mm			
Weight	4.06KG	4.41KG	4.55KG	4.46KG
Operating Temperature	-10°C to 50°C		-10°C to 45°C	
Storage Temperature	-40°C to 70°C			
Operating Humidity	10% to 90% (Non-condensing)			
Storage Humidity	0 to 95% (Non-condensing)			
Temperature Alarm	55°C			

## SOFTWARE FEATURE LIST

Type	Feature	
<b>MAC Address Table</b>	32K	
<b>Jumbo Frame</b>	12K	
<b>Flow Control</b>	<b>802.3x (Full-duplex)</b>	Yes
	<b>Back-Pressure</b>	Yes

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	<b>(Half-duplex)</b>	
<b>Spanning Tree</b>	<b>IEEE 802.1D (STP)</b>	Yes
	<b>IEEE 802.1w (RSTP)</b>	Yes
	<b>IEEE 802.1s (MSTP)</b>	64 instances
	<b>Auto Edge Port</b>	Yes
	<b>BPDU Filtering</b>	Yes
	<b>Self Loop Detection</b>	Yes
<b>Link Aggregation</b>	<b>IEEE 802.3ad LACP</b>	Yes
	<b>Static Trunk</b>	Yes
	<b>Max. Group</b>	64
	<b>Max. Ports/Group</b>	8
	<b>Traffic Load Balancing</b>	Yes
<b>VLAN</b>		
<b>Voice VLAN</b>	<b>Static VLAN</b>	4K
	<b>Port-based</b>	Yes
	<b>IEEE 802.1Q Tagged-based</b>	Yes
	<b>Protocol-based</b>	8 groups
	<b>MAC-based</b>	1K (shared)
	<b>OUI Mode (Auto/Manual)</b>	16 OUI
	<b>Surveillance VLAN</b>	<b>OUI Mode</b>

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	<b>(Auto/Manual)</b>	
<b>QinQ (IEEE 802.1ad)</b>	<b>Basic</b>	Yes
<b>GARP VLAN Registration Protocol (GVRP)</b>	Yes	
<b>Multicast</b>		
<b>Common</b>	<b>Multicast Groups</b>	1K
	<b>Immediate Leave</b>	Yes
	<b>Static/Forbidden Router Port</b>	Yes
	<b>Static/Forbidden Forward Port</b>	Yes
	<b>Filtering</b>	128 profiles
	<b>Throttling</b>	Yes
	<b>IGMP Snooping</b>	<b>IGMP v1/v2</b>
<b>IGMP v3 Basic (BISS)</b>		Yes
<b>IGMP v2/v3 Querier</b>		Yes
<b>MLD Snooping</b>	<b>MLD v1/v2</b>	Yes
<b>Multicast VLAN Registration (MVR)</b>	Yes	
<b>QoS Features</b>		
<b>Priority Queue</b>	8 queues/port	
<b>Queue Scheduling</b>	<b>WRR</b>	Yes

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	<b>WFQ</b>	Yes
	<b>Strict Priority</b>	Yes
	<b>Hybrid(WRR+SP or WFQ+SP)</b>	Yes
<b>Class of Service</b>	<b>Port-based</b>	Yes
	<b>802.1p</b>	Yes
	<b>IP TOS Precedence</b>	Yes
	<b>IP DSCP</b>	Yes
<b>Trusted QoS</b>		Yes
<b>Rate Limit</b>	<b>Port-based (Ingress/Egress)</b>	Yes
<b>Access Control List (ACL)</b>		
<b>Access Rules</b>	2048	
<b>ACL Type</b>	<b>L2/L3/L4</b>	Yes
	<b>MAC-based</b>	
	<b>IPv4-based</b>	512
	<b>IPv6-based</b>	
<b>Security</b>		
<b>AAA</b>	<b>Authentication</b>	Yes
<b>TACACS+</b>	8	
<b>RADIUS</b>	8	
<b>Authentication Manager</b>	<b>IEEE 802.1X</b>	Yes
	<b>MAC Auth</b>	Yes

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	<b>Web Auth</b>	Yes
	<b>Guest VLAN</b>	Yes
	<b>Port-based</b>	Yes
	<b>Host-based</b>	Yes
<b>Account Manager</b>	<b>Local Authenticoitin</b>	Yes
	<b>Multiple User Account</b>	8
	<b>Multi-Level Security</b>	Yes
	<b>Password Recovery Procedures</b>	Yes
<b>Management Access</b>	<b>Management VLAN</b>	Yes
	<b>Management ACL</b>	256
<b>SSL</b>	<b>SSLv2</b>	Yes
	<b>SSLv3</b>	Yes
	<b>TLSv1</b>	Yes
<b>WebUI</b>	<b>HTTPS</b>	Yes
<b>CLI</b>	<b>SSH v1/v2</b>	Yes
<b>Port Security</b>	<b>Dynamic Lock</b>	256
<b>Storm Control</b>	<b>Broadcast</b>	Yes
	<b>Unknown Multicast</b>	Yes
	<b>Unknown Unicast</b>	Yes
<b>Spanning Tree</b>	<b>BPDU Guard</b>	Yes
<b>Protected Port (Port</b>	Yes	

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<b>Isolation)</b>		
<b>Black Hole MAC</b>	Yes	
<b>CPU Defence Engine</b>		Yes
<b>DoS Prevention</b>		Yes
<b>DHCP Snooping (with Option 82)</b>		Yes
<b>Dynamic ARP Inspection</b>		Yes
<b>IP Source Guard</b>		256
<b>IP/MAC/Port Binding (IMPB)</b>		Yes
<b>IPv6</b>		
<b>IPv6 Host</b>	<b>Auto Configuration</b>	Yes
	<b>Static IPv6 Address and Prefix Length</b>	Yes
	<b>Static IPv6 Default Gateway</b>	Yes
	<b>IPv6 Neighbor Discovery (ND)</b>	Yes
	<b>IPv6 Duplicate Address Detection</b>	Yes
	<b>ICMPv6</b>	Yes
<b>IPv6 Application</b>	<b>HTTP/HTTPS</b>	Yes

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	<b>TELNET</b>	Yes
	<b>SSH</b>	Yes
	<b>SNMP</b>	Yes
	<b>TFTP</b>	Yes
	<b>Syslog</b>	Yes
	<b>PING</b>	Yes
	<b>DHCPv6</b>	Yes
<b>Management</b>		
<b>CLI</b>	<b>Console</b>	3 sessions
	<b>Telnet (RFC854)</b>	
<b>WebUI</b>	<b>HTTP</b>	Yes
	<b>v1</b>	Yes
	<b>v2c</b>	Yes
<b>SNMP</b>	<b>v3</b>	Yes
<b>File Management</b>	<b>Firmware Upgrade/Backup</b>	Yes
	<b>Dual Images</b>	Yes
	<b>Configuration Download/Backup</b>	Yes
	<b>Multiple Configurations</b>	Yes
<b>Upload/Download</b>	<b>TFTP (RFC783)</b>	Yes
	<b>HTTP</b>	Yes

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	<b>UART</b>	Yes
<b>Time Management</b>	<b>Local</b>	Yes
	<b>SNTP</b>	Yes
<b>Port Management</b>	<b>Friendly Port Name (Port Description)</b>	Yes
	<b>Error Disabled Recovery</b>	Yes
<b>Line Management</b>	<b>Console</b>	Yes
	<b>Telnet (RFC854)</b>	Yes
	<b>SSH v1/v2</b>	Yes
<b>DHCP</b>	<b>Client</b>	Yes
	<b>DHCP SNOOPING</b>	Yes
	<b>Server</b>	Yes
	<b>Relay</b>	Yes
	<b>option82</b>	Yes
<b>DNS</b>	<b>Client</b>	Yes
<b>Software Reset Button</b>	Yes	
<b>EEE (802.3az)</b>	Yes	
<b>RMON Management</b>	32 entries / type	
<b>Discovery</b>		
<b>IEEE 802.1AB Link Layer Discovery Protocol (LLDP)</b>	Yes	

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<b>ANSI/TIA-1057 LLDP</b>		
<b>Media Endpoint Discovery (LLDP-MED)</b>	Yes	
<b>Diagnostics</b>		
<b>Mirroring</b>	<b>Port-based (Many to One)</b>	4 sessions
<b>Syslog (RFC3164)</b>	<b>Local RAM</b>	Yes
	<b>Local Flash</b>	Yes
	<b>Remote Server</b>	8
<b>System Diagnostics</b>	<b>CPU Utilization</b>	Yes
	<b>Memory Utilization</b>	Yes
	<b>Port Utilization</b>	Yes
<b>Port Diagnostics</b>	<b>Cable Test</b>	Yes
	<b>Fiber Module Status</b>	Yes
<b>Network Diagnostics</b>	<b>Ping Test</b>	Yes
	<b>Traceroute</b>	Yes
<b>UDLD</b>	Yes	
<b>MIB</b>		
<b>RFC1213 MIBII (System &amp; Interface groups)</b>	Yes	
<b>RFC2819 RMON I (1,2,3, &amp; 9 groups)</b>	Yes	
<b>RFC1215 Generic Traps</b>	Yes	

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<b>RFC1493 Bridge</b>	Yes	
<b>RFC2674 Bridge MIB Extensions</b>	Yes	
<b>RFC2737 Entity</b>	Yes	
<b>RFC3635 Ethernet-Like</b>	Yes	
<b>RFC2863 Interface Group</b>	Yes	
<b>SNMP-Community-MIB</b>	Yes	
<b>SNMPv3</b>	Yes	
<b>POE (S3524P/S3524PB)</b>	<b>POE port config</b>	Yes
<b>RIP</b>	<b>v1/v2</b>	Yes
<b>OSPF</b>	<b>v1/v2</b>	Yes
<b>Web GUI language</b>	<b>English Only</b>	Yes

## ACCESSORIES

<b>Product Name</b>	<b>Quantity</b>
Console Cable	1PCS
Power Cords	1PCS ( S3024-6X/ S3024-6X-D /S3024P-6X/ S3024PB-6X )
Rack Mount Brackets	2PCS
Bracket Screws	6PCS
Cat5e Cable	1PCS
Grounding Cable	1PCS

**ORDER INFORMATION**

Product Name	Description
<b>S3024-6X</b>	- 24 Ports 2.5G L3 Managed Switch, with 24*100/1000M/2.5GBase-T and 6* 10G SFP+ Uplink Ports, Built-in 96W AC/DC power supply and 3* built-in fan.
<b>S3024-6X-D</b>	- 24 Ports 2.5G L3 Managed Switch, with 24*100/1000M/2.5GBase-T and 6* 10G SFP+ Uplink Ports, Built-in 150W AC/DC dual power supply, 3*built-in fan
<b>S3024P-6X</b>	- 24 Ports 2.5G L3 Managed POE++ Switch, with 24* 100/1000M/2.5GBase-T (Max90w/port) and 6* 10G SFP+ Uplink Ports, Built-in 450W POE power supply, 380W POE power budget ,4* built-in fan
<b>S3024PB-6X</b>	- 24 Ports 2.5G L3 Managed POE++ Switch, with 24* 100/1000M/2.5GBase-T (Max90w/port) and 6* 10G SFP+ Uplink Ports, Built-in 880W POE power supply, 750W POE power budget, 5*built-in fan