

ZYXEL

Software Release Note NebulaFlex Switch XGS1930 Series

Date: Jul. 03, 2025

Zyxel NebulaFlex Switch XGS1930 Series

V5.00(ABH_.0)C0 Release Note

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This document describes the features in the XGS1930 series for its 5.00(ABH_.0)C0 release.

XGS1930 series is a hybrid switch with NebulaFlex technology to support operation in either Standalone mode or Nebula cloud management mode.

Supported Platforms

Support Platform	Firmware version	Boot Version
Zyxel XGS1930-28	V5.00(ABHT.0)C0	V2.00 07/10/2018
Zyxel XGS1930-28HP	V5.00(ABHS.0)C0	V2.00 07/10/2018
Zyxel XGS1930-52	V5.00 (ABHU.0)C0	V2.00 07/10/2018
Zyxel XGS1930-52HP	V5.00(ABHV.0)C0	V2.00 07/10/2018

New Feature and Enhancements

1. [Standalone, Nebula] Renovate Web GUI layout for better usability of Switch management.
2. [Standalone, Nebula] Intuitive Cloud connection status with help message.
3. [Standalone, Nebula] Strengthen security for network management with built-in notification in case of abnormal login attempt.
4. [Standalone, Nebula] The year of Time Range page starts with current system time.
5. [Standalone, Nebula] Provide time-stamp on filename title when backup configuration file.
6. [Standalone, Nebula] Prevent page refresh when clicking the cancel button in pop-up messages on the dashboard.
7. [Standalone, Nebula] Support public key authentication for SSH.
8. [Standalone, Nebula] Remote management offers support for IPv6.
9. [Standalone, Nebula] The admin account can be changed, providing flexibility and security to the network management system.

10. [Standalone, Nebula] Disable Telnet feature by default setting.
11. [Standalone, Nebula] Web Support Re-Generate SSH Public Key 2048bit for RSA.
12. [Standalone, Nebula] Enhance security by supporting the ECDSA algorithm in SSH.
13. [Standalone, Nebula] Support event log and SNMP trap functionality to generate alerts when system logs reached 90% of thresholds.
14. [Standalone, Nebula] Support user IP lockout functionality after a certain number of failed login attempts.
15. [Standalone, Nebula] Device firmware upgrade will check file checksum.
16. [Standalone, Nebula] The login page will automatically redirect from HTTP to HTTPS to enhance network security.
17. [Nebula] Unlock local Web GUI for cloud mode.
18. [Nebula] Provide the Nebula password reminder on login page of web GUI.
19. [Standalone] Supports "Account Security" option on WEB GUI to encrypt admin / user account password and options to display user/AAA/SNMP credentials.
20. [Standalone] Supports auto STP path cost which will determine path cost by the port's current link speed.
21. [Standalone] NCC discovery adds reminder to save configurations.
22. [Standalone] Strengthen user security with the encryption of TACACS+ & Radius shared secret.
23. [Standalone] Extend RADIUS server support range from IPv4 to IPv6.
24. [Standalone] Enhance Guest VLAN to isolate broadcast packets between VLANs.
25. [Standalone] Add note on cable diagnostics to inform the operating limits for local web GUI.
26. [Standalone] Allow to change the IP address from DHCP to static type directly for Layer 3 switch.
27. [Standalone] Enhance security of login process by adding HTTPS login option.
28. [Standalone, Nebula] Improve 802.1x and MAC authentication support to identify the Termination-action and port number attribute.
29. [Standalone] Enhanced search bar with improved keyword searching capabilities.
30. [Standalone] Automatic detection of media type for Zyxel Transceivers and DAC.
31. [Standalone, Nebula] Allow SSH and CLI commands to be combined and display the command result directly.
32. [Standalone, Nebula] Improve Dashboard's port link speed color display to enhance user

experience and intuitiveness.

- 33. [Standalone] Clicking on the port icon in the dashboard now redirects to the Port Settings page, providing quicker access to configuration options and improving usability.
- 34. [Standalone] Enhance security by forcing users to change the password after first login.
- 35. [Standalone] Expand NTP servers from 1 to 3.
- 36. [Standalone] Support Zyxel Private MIB.
- 37. [Nebula] Enhance the cloud auto recovery mechanism to prevent the device from being locked when the connection is unstable.
- 38. [Nebula] Nebula Switch supports SSH connection to access command line for advanced feature.
- 39. [Standalone] Support password complexity for user/SNMP account and enable mod, with default setting is disable.
- 40. [Standalone] Support interactive password command for masking password in CLI when you creating account.
- 41. [Standalone] Enable password encryption by default to enhance security.
- 42. [Nebula] Support Hardware monitor. (CPU/Memory/Temperature/Fan)
- 43. [Nebula] Support DHCP relay and added DHCP option 82 for DHCP relay.
- 44. [Nebula] When configure existence management IP address, a warning message will alert for preventing IP conflict.
- 45. [Nebula] Support flow control on the port setting.
- 46. [Nebula] Support port Profile.
- 47. [Nebula] Support IGMP Report Proxy setting.
- 48. [Nebula] Support Dynamic VLAN assignment through 802.1x authentication.
- 49. [Nebula] Detect transceiver over-temperature to trigger full-speed fan.
- 50. [Nebula] Support MAC authentication by cloud authentication on NCC.
- 51. [Nebula] Support BPDU and loop guard err-disable recovery.
- 52. [Standalone] Add new system log for changes in service access control configuration.
- 53. [Standalone] Limit login accounts with privileges 0 to 2 only to display basic system

information on web GUI.

Bug fix

Bug fix	Nebula	Standalone
1. [eITS #241001395] IPSG with IPv6 has lease time of only 10 seconds.	-	V
2. [eITS #241100262] Cannot clear classifier names longer than 10 characters.	-	V
3. [eITS #241100288] MSTP root guard cannot prevent the RSTP Superior switch from preempting the root.	V	V
4. [eITS#241100538] Fix special characters(space,',") can be allowed in username to cause configuration error.	-	V
5. [eITS #250100026] Fixed abnormal crash issue when continues queries OID 1.0.8802.1.1.2.1.5.4795.1.2.1.1 and its sub-OIDs.	V	V
6. [eITS #241200595] Fixed high CPU usage triggered by client switching between trunk interfaces.	V	V
7. [eITS #250100440] Fixed that truncated DNS packets cannot be process to cause DNS parsing failed.	V	-
8. [eIST #250100337] Fixed DHCPv6 snooping not work due to device cannot process DHCPv6 request with IA_PD+IA_NA option.	-	V
9. [eITS #250201088] When the RADIUS server does not provide a session-timeout attribute, the switch will re-	V	-

Bug fix	Nebula	Standalone
authenticate successfully connected devices every hour by default.		
10. [eITS #250200357] The switch has drop the EAPoL unicast packet.	V	V
11. [eITS #250302409] Fixed the device sometimes fail to connect with Nebula server.	V	-
12. [eITS #250500429] Fixed crash when receive IPv6 tunnel packet.	-	V
13. [eITS #250601084] Fixed hang when use CLI show tech-support.	V	V
14. [eITS #250601569] If set the default gateway with link local address, the IPv6 routing table would display abnormal next hop.	-	V

Known Issue

Known Issue	Nebula	Standalone
1. Ingress rate limit of TCP traffic is inaccurate.	V	V
2. The accuracy of cable diagnostic is +- 15m. When without cables, the value of distance to fault would not be 0.	V	V
3. When an IPv6 static route exists, the speed of IPv6 route cannot reach full speed.	-	V
4. Only 2 criteria of link aggregation can be active at the same time.	-	V
5. The switch cannot access cluster member when cluster member's	-	V

Known Issue	Nebula	Standalone
password been encrypted.		
6. ZON utility show the wrong message when it reset the switch to the default setting.	V	V

Limitation of Settings:

Limitation of Setting	Nebula	Standalone
1. 802.1Q Static VLANs	1K	1K
2. Static MAC forwarding entry	-	256
3. MAC filtering entry	256	256
4. Cluster member	-	24
5. Port-security max address-limit number	16K	16K
6. Syslog server entry	2	4
7. MAC table	16K	16K
8. Multicast group	1K	1K
9. ACL	128	256
10. DHCP Relay Entry	-	17
11. Static ARP entry	-	256
12. Static route max entry	32	32
13. Trunk groups	28(HP):12	28(HP):12
	52(HP):24	52(HP):24
14. Per trunk group port number	8	8
15. MSTP instance	-	0-16
16. Voice VLAN OUI entry	6	10
17. ZON neighbor per-port maximum clients	-	10

Change History

- V5.00(ABH_.0) | 07/03/2025
- V4.70(ABH_.9) | 11/07/2024
- V4.70(ABH_.8) | 09/06/2024
- V4.70(ABH_.7) | 12/04/2023
- V4.70(ABH_.6) | 12/06/2022
- V4.70(ABH_.5) | 10/03/2022
- V4.70(ABH_.4) | 07/29/2022
- V4.70(ABH_.3) | 11/01/2021
- V4.70(ABH_.2) | 06/02/2021
- V4.70(ABH_.1) | 03/26/2021
- V4.50(ABH_.7) | 07/30/2019
- V4.50(ABH_.6) | 07/23/2019
- V4.50(ABH_.5) | 03/11/2019
- V4.50(ABH_.4) | 11/02/2018
- V4.50(ABH_.3) | 09/26/2018
- V4.50(ABH_.2) | 08/30/2018
- V4.50(ABH_.1) | 06/20/2018