

## Zyxel RGS200-12P 1.00(ABEP.1)C0

### Release Note/Manual Supplement

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**Date:** July. 3, 2019

This document describes the features in the **RGS200-12P** product for its **1.00(ABEP.1)C0** release.

### Support Platforms:

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Zyxel RGS200-12P 1.00(ABEP.1)C0 supports model: Zyxel RGS200-12P

### Version:

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Firmware Version: V1.00(ABEP.1)

## Enhanced Features:

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1. eITS# 170600900

[Info] Switch can now display system temperature

2. eITS# 180100798

[PoE] Add PoE "Force-on" mode to support PDs that are incompatible with IEEE 802.3 at/af.

\* Make sure the connected PD supports auto voltage polarity and the operating voltage range is 54V to 40V.

## Bug fix:

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1. eITS# 170800682

[IOP] Switch that connects with MC1000-SFP-FP cannot forward traffic after executing a warm start and needs to plug off/on the Switch to recover.

2. eITS# 180500627

[Log] System log displays incorrect port link down information while these ports are actually link up.

3. eITS# 180900412

[PoE] Switch provides the PoE power to PDs properly, but WEB GUI display incorrect message of "no PoE chip found".

4. eITS# 180100882

[IOP] Switch cannot ping PIC18F67J60 based device's IP address while connects in 10Mbps speed.

## Known Issue:

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1. [Flow Control] TX Pause Count always show zero.
2. [Mirror] Mirror Destination Port cannot access to other host.
3. [VLAN] Configure allow/forbidden VLANs on port but monitor page will not display these VLANs.
4. [VLAN] Voice VLAN will only modify packet's VLAN Priority.

5. **[Port Security]** Port-security cannot work when ports enable static link aggregation.
6. **[NTP]** Switch use NTP v4 but it cannot compatible with NTP v3 server.  
Workaround: Switch changes to NTP v3.
7. **[Port]** Rx Jabber counter cannot work.
8. **[Port]** Rx Oversize counter cannot work.
9. **[IGMP]** Two RGS series in daisy chain and enabled MVR, data traffic cannot forward to uplink.
10. **[Log]** RGS system log will clear after reboot.
11. **[Link Aggregation]** Single LACP port link up cannot show neighbor switch information.
12. **[IPv6]** Some of Link local address may disappear when enable multiple IPv6 interface.
13. **[RMON]** Packet length over then 1518 will cause counter calculation error.
14. **[SNMP]** SNMP trap cannot work when destination is IPv6 address.
15. **[SNMP]** RGS does not send trap message when user login failed with radius authentication.

## Main Features:

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1. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
2. 8 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
3. 4 SFP ports (Support DDMI)
4. IEEE 802.1D STP/802.1w RSTP/802.1s MSTP
5. Quick Ring failover protection < 20ms, (Support Single & Multiple rings; Ring coupling; Dual homing; Chain)
6. Loop detection
7. VLAN number (static: 1024)
8. 802.1Q VLAN tagging
9. GVRP
10. IEEE 802.3ad LACP
11. Static Link aggregation (Group: 6, member: 8)
12. LA algorithm of MAC
13. LA algorithm of IP
14. Port isolation
15. Storm Control (Unicast, Broadcast, and Unknown flooded traffic)
16. Help Pages
17. Static Mac Entries
18. IP and MAC-based Access control (128)
19. ACL (support IPv4/IPv6) (256)
20. 802.1X (port-base)
21. Guest VLAN
22. Port Security
23. MAC address limit
24. Layer 2 MAC filtering
25. Static MAC forwarding
26. Multiple RADIUS servers
27. RADIUS authentication
28. RADIUS authorization
29. TACACS+ authentication
30. TACACS+ authorization

31. SSL (certificate Key length 2048bits)
32. SSL (support SHA-2)
33. Management VLAN
34. CPU Defense Engine
35. IP Source guard
36. ARP inspection
37. 802.1p Priority Queues per Port
38. 802.1p Queuing method (scheduler)
39. Input priority mapping
40. Queue egress shaper
41. Rate limiting, port based
42. 802.3x flow control
43. Voice VLAN (OUI, LLDP)
44. 802.1p Class of Service (SPQ, WRR)
45. Port-based CoS
46. IP TOS Precedence
47. DSCP
48. Number of queue per port
49. L2 Multicast Group (256)
50. IGMP Snooping (v1, v2 and v3)
51. IGMP snooping and querying
52. MLD Snooping and proxy
53. Fast leave and leave proxy
54. Throttling and filtering
55. SNMP v1, v2c, v3
56. ICMP echo/echo reply
57. Syslog
58. Ethernet Copper connection diagnostic tool
59. RFC 2233 IF MIB
60. RFC1213 MIB II
61. RFC 1757 RMON 1,2,3,9
62. RFC1215 Generic Traps
63. RFC1493 Bridge
64. Private MIB
65. RFC 2674 Q-Bridge MIB
66. LLDP-MIB

- 67. LLDP-EXT-MED MIB
- 68. IPv6 over Ethernet (RFC 2464)
- 69. IPv6 Addressing Architecture (RFC 4291)
- 70. Dual stack (RFC4213)
- 71. ICMPv6 (RFC4884)
- 72. Static IPv6 Address and Prefix Length
- 73. Static IPv6 Default Gateway
- 74. Web Interface
- 75. HTTP/HTTPS
- 76. IPv6 management (Web)
- 77. CLI (support console)
- 78. Telnet (5 sessions)
- 79. SSHv2 (5 sessions)
- 80. Firmware upgrade by web
- 81. Firmware upgrade by TFTP
- 82. Configuration download/upload by web
- 83. Configuration download/upload by cli via TFTP
- 84. DHCP Client
- 85. DHCP Relay
- 86. DHCP Snooping
- 87. DHCP option 82
- 88. SNTP
- 89. Daylight saving setting
- 90. Schedule PoE
- 91. PoE MCU firmware upgradable
- 92. Port Mirroring
- 93. Per VLAN mirroring
- 94. Reset button (HW reset)
- 95. Dual Image
- 96. EEE support
- 97. Cable Diagnostics

## Limitation of Settings:

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1. 802.1Q Static VLANs	1024
2. Static MAC forwarding entry	8K
3. MAC filtering entry	8K
4. Port-security max address-limit number	8K
5. IP source guard entry	512
6. IP subnet based VLAN entry	16
7. MVR VLAN entry	5
8. MAC table	16K
9. Multicast group	256
10. ACL	256
11. Trunk groups	6
12. Per trunk group port number	8