

ZyXEL GS2210-8HP V4.10(AASQ.1)C0

Release Note/Manual Supplement

Date: May. 5, 2015

This document describes the features in the GS2210-8HP product for its 4.10(AASQ.1)C0 release.

Support Platforms:

ZyXEL GS2210-8HP V4.10(AASQ.1)C0 supports models: ZyXEL GS2210-8HP.

Version:

OS Version: V4.10(AASQ.1) | 05/05/2015 16:46:10

BootBase Version: V1.00 | 07/22/2014 11:29:49

Default Bootbase Setting:

ZyNOS Version	V4.10(AASQ.1) 05/05/2015 16:46:10
Bootbase Version	V1.00 07/22/2014 11:29:49
Serial Number	xxxxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS2210-8HP
ZyNOS Code Model	GS2210
ZyNOS ROM address	b40a0000
System Type	8
First MAC Address	0019CB000001
Last MAC Address	0019CB00001B
MAC Address Quantity	11
Default Country Code	FF
Boot Module Debug Flag	00
CPLD Version	N/A
RomFile Version	27
RomFile Checksum	1bc5
ZyNOS Checksum	2b9
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
02 55 00 00 00 00 00 00-00 00 00 00 00 00 00 00	
00 00 00 00 00 00 00 00-00 13 00 00 00 00	

Main Features:

1. 8 Auto MDI/MDI-X 10Base-T/100Base-TX/1000Base-T
2. 2 dual personality GbE
3. PWM Fan module
4. Locator LED
5. 24 PoE ports with 802.3af and 802.3at compliant.
6. 16K layer 2 MAC addresses table
7. Jumbo frame length 9K
8. IEEE 802.1D transparent bridging
9. IEEE 802.1w, RSTP

10. IEEE 802.1s, MSTP
11. ZyXEL MRSTP
12. Rule-based bandwidth control
13. Port-based egress traffic shaping
14. IEEE 802.3x flow control.
15. DSCP to 802.1p priority mapping
16. Port-based VLAN
17. Protocol-based VLAN
18. IP subnet based VLAN
19. IEEE 802.1Q Static VLANs
20. IEEE 802.1Q dynamic VLANs
21. VLAN trunking
22. GVRP
23. IEEE 802.3ad LACP
24. Port mirroring
25. Support rate limiting, minimum step 64K both ingress and egress
26. Broadcast Storm Control
27. Layer 2 MAC filtering
28. Layer 3 IP filtering
29. Layer 4 TCP/UDP socket filtering
30. DHCP snooping
31. DHCP client
32. DHCP relay/DHCP relay per VLAN
33. DHCP option 82
34. IGMP v1/v2/v3 snooping
35. Static multicast forwarding
36. 802.1x port authentication
37. Port Security
38. Static MAC filtering/forwarding
39. Multiple RADIUS servers
40. Multiple TACACS+ servers
41. AAA by RADIUS / TACACS+
42. SSH v1/SSH v2/SSL
43. Intrusion Lock
44. MAC Freeze
45. ARP Inspection
46. Static IP/MAC/Port binding
47. Policy-based security filtering
48. IEEE 802.1Q VLAN port isolation
49. IP Source Guard
50. Guest VLAN
51. ACL packet filtering
52. PPPoE IA and option 82
53. CPU protection
54. Recovery mechanism for Error disable port/reason
55. Loop guard
56. Dual configuration files
57. Dual images
58. IGMP snooping fast leave
59. IGMP snooping statistics
60. IGMP throttling
61. SNMP v1, v2c, v3
62. SNMP trap group
63. Interface related trap can be enable/disable by port
64. RMON
65. ICMP echo/echo reply
66. Syslog
67. DHCPv6 client and relay
68. NDP: host
69. IPv6 address stateless auto-configuration

70. ZyXEL clustering management
71. Management through console, telnet, SNMP or web management
72. Firmware upgrade by FTP/WEB/TFTP
73. Configuration saving and retrieving by WEB/TFTP/FTP
74. Support Multiple login
75. Configure Clone
76. Multilevel CLI
77. Daylight Saving
78. NTP
79. RS232 console port
80. Service Access Control Timeout
81. IEEE 802.1AB LLDP
82. IEEE 802.1AB LLDP-MED
83. Authorization on console
84. Password encryption
85. User access right
86. ZyXEL Feature-based private MIB
87. ZyXEL ESB common MIB
88. Green Ethernet
89. Cable diagnostics
90. Support PoE/Voltage/Temperature/Fan Fault Trap
91. Support show PoE per port power consumption information, and classification
92. SNMP trap for error recovery
93. MAC aging time
94. MAC-based VLAN
95. Voice VLAN
96. Private VLAN
97. MLD snooping proxy
98. ZyXEL One Network (ZON)
99. ZyXEL Neighbor Management

Enhanced Features:

1. PoE Power Up Mode command
2. Add the new CLI command to re-initial the certification.

Bug Fix:

1. **[System]** Copy running-config cause DUT CPU high and records lots of port link down/up logs.
2. **[System]** "Show tech-support" that will make switch crash or hang.
3. **[System]** "Show tech-support" or "show tech-support memory" via ssh (uses putty) will cause DUT crash.
4. **[System]** System crash with exception on eventCmdProc or Memory cookies destroyed.
5. **[System]** System will encounter socket error, when socket leakage.
6. **[System]** Run RomPagerPOCCookie, RomPagerPOCCookies2 will cause DUT crash.
7. **[System]** When all port's transceiver-ddmi inserts, the switch may happen CPU High every hours.
8. **[System]** "Show tech-support" cannot display "show run config" via web
9. **[MGMT]** Ping to switch but no response when doing firmware upgrade.
10. **[MGMT]** Cpu threshold cannot be set over 20.
11. **[WebGUI]** Configure VLAN Port Setting by WebGUI, selecting one of acceptable frame types to "*", the selected item cannot be applied for all ports.
12. **[Port]** When enable igmp-snooping, traffic may not be able to forward on port 28.
13. **[LLDP]** Fix the incompatibility issue with some IP Phones that will cause the switch loss of management.
14. **[802.1x]** Dynamic VLAN Assignment approved for VLAN10 in the Juniper server, but VLAN100 approved in the switch.
15. **[STP]** Fix switch may drop BPDU packets.
16. **[PoE]** Fix allocated power calculation error when connecting PDs with Class 2 over 25.

Known Issue:

1. Ingress rate limit of TCP traffic might have inaccuracy with some criteria.
2. Fake IP traffic cannot be filtered when a static IP binding existed.
3. The cable length resolution of Cable Diagnostic is about +-15 meter.
4. The fault distance of Cable Diagnostic displays wrong information when no cable inserted.
5. When RSTP is enabled with ring topology, LACP can't be activated at the same ports.

Limitation of Settings:

1.	802.1Q Static VLANs	1K
2.	Static MAC forwarding entry	256
3.	MAC filtering entry	256
4.	Cluster member	24
5.	Protocol based VLAN entries per port	7
6.	Port-security max address-limit number	16K
7.	Syslog server entry	4
8.	IP source guard entry	512
9.	IP subnet based VLAN entry	16
10.	DHCP snooping binding table	16K
11.	Multicast group	1024
12.	ACL	256
13.	DHCP relay Entry	16
14.	Trunk groups	5
15.	Per trunk group port number	8
16.	MSTP instance	0-15
17.	MAC-based VLAN	10
18.	Voice VLAN OUI entry	6
19.	ZON neighbor per-port maximum clients	10

Firmware Upgrade:

The GS2210-8HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade GS2210-8HP. The upgrade procedure is as follows:

Upgrade GS2210-8HP Firmware:

```
C:\> ftp <GS2210-8HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AASQ1C0.bin ras-0
ftp> bye
```

Where

- User name: the management user name, admin by default.
- Password: the management password, 1234 by default.
- 410AASQ1C0.bin: the name of firmware file you want to upgrade.
- ras-0: the internal firmware name in GS2210-8HP (store at first flash).
- ras-1: the internal firmware name in GS2210-8HP (store at second flash).

Configuration Upgrade:

The GS2210-8HP uses FTP to upgrade configuration in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade GS2210-8HP. The upgrade procedure is as follows:

Upgrade GS2210-8HP Configuration:

```
C:\> ftp <GS2210-8HP IP address>
User name: admin
Password: 1234
230 Logged in
ftp> put 410AASQ1C0.rom rom-0
ftp> bye
```

Where

- User name: the management user name, admin by default.
- Password: the management password, 1234 by default.
- 410AASQ1C0.rom: the name of configuration file you want to upgrade.
- rom-0: the internal configuration name in GS2210-8HP.

ZyXEL GS2210-8HP V4.10(AASQ.0)C0

Release Note/Manual Supplement

Date: Oct. 14, 2014

This document describes the features in the GS2210-8HP product for its 4.10(AASQ.0)C0 release.

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ZyXEL GS2210-8HP V4.10(AASQ.0)C0 supports models: ZyXEL GS2210-8HP.

Version:

OS Version: V4.10(AASQ.0) | 10/14/2014 11:31:39

BootBase Version: V1.00 | 07/22/2014 11:29:49

Default Bootbase Setting:

ZyNOS Version	V4.10(AASQ.0) 10/14/2014 11:31:39
Bootbase Version	V1.00 07/22/2014 11:29:49
Serial Number	xxxxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS2210-8HP
ZyNOS Code Model	GS2210
ZyNOS ROM address	b40a0000
System Type	8
First MAC Address	0019CB000001
Last MAC Address	0019CB00001B
MAC Address Quantity	11
Default Country Code	FF
Boot Module Debug Flag	00
CPLD Version	N/A
RomFile Version	27
RomFile Checksum	1bc5
ZyNOS Checksum	609f
SNMP MIB level & OID	060102030405060708091011121314151617181920
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