

ZyXEL GS2210-24LP V4.30(ABEO.0)C0

Release Note/Manual Supplement

Date: May.16, 2016

This document describes the features in the GS2210-24LP product for its 4.30(ABEO.0)C0 release.

Support Platforms:

ZyXEL GS2210-24LP V4.30(ABEO.0)C0 supports models: ZyXEL GS2210-24LP.

Version:

OS Version: V4.30(ABEO.0) | 05/16/2016 13:37:55

BootBase Version: V1.00 | 04/14/2016 10:47:40

Default Bootbase Setting:

ZyNOS Version	V4.30(ABEO.0) 05/16/2016 13:37:55
Bootbase Version	V1.00 04/14/2016 10:47:42
Serial Number	xxxxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS2210-24LP
ZyNOS Code Model	GS2210
ZyNOS ROM address	b40a0000
System Type	8
First MAC Address	0019CB000001
Last MAC Address	0019CB00001D
MAC Address Quantity	29
Default Country Code	FF
Boot Module Debug Flag	00
CPLD Version	N/A
RomFile Version	41
RomFile Checksum	c06f
ZyNOS Checksum	6983
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	02 5F 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. 24 Auto MDI/MDI-X 10Base-T/100Base-TX/1000Base-T
2. 4 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 ESBU 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
100. MAC authentication (per-port)
101. MAC authentication (trust VLAN)
102. PoE power-up mode
103. ACL 2.0
104. Time Range
105. Reload Factory Default
106. Auto Port Speed
107. Time-based PoE
108. BPDU Guard
109. Anti-ARP scan
110. Root Guard
111. ZULD
112. Broadcast/Multicast storm control log
113. Default IP setting to DHCP
114. IPv6 source guard
115. DHCPv6 snooping
116. DHCPv6 Trust/Untrust Server
117. System Log Enhancement (Add Port description)
118. CLI add current configuration information
119. WEB support OAM & ZULD
120. Trunk and mirror co-worked
121. ZyXEL Neighbor Management enhancement
122. WEB add refresh button
123. Logging trap
124. IPv6 DNS
125. IPv6 trace route
126. WEB – status add SNMP field message.
127. ZON support DNS2.
128. SSL DHparam length from 512 bits to 2048 bits

Enhanced Features:

None

Bug Fix:

None

Known Issue:

1. Policy rule: for the ARP/RARP packet, policy rule qualifies the sender MAC address, not the source MAC address.
2. IP source guard: creates a legal static IP source binding first, and then send illegal IP traffic (the same MAC address but different IP address). DUT cannot filter the illegal IP traffic.
3. Green Ethernet: short reach does not support display short reach status.
4. RSTP: enable RSTP and connect with D-Link, DUT would run STP state machine.
5. MSTP: When set port to be non-edge port, the port's MSTP state changes immediately from discarding->forwarding.
6. Cable diagnostic: the accuracy of cable diagnostic is +15m ~ -15m. And plug out the cable line, the value of distance to fault would not be 0.00.
7. When RSTP is enabled with ring topology, LACP can't be activated at the same ports.
8. Switch can learn remote LLDP information on LACP not sync port.
9. GS2210 is cluster manager. The cluster member (GS3700/XS3700) didn't upgraded F/W via FTP.

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	14
15.	Per trunk group port number	8
16.	MSTP instance	0-15
17.	MAC-based VLAN	50
18.	Voice VLAN OUI entry	6
19.	ZON neighbor per-port maximum clients	10

Firmware Upgrade:

The GS2210-24LP 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 GS2210-24LP. The upgrade procedure is as follows:

Upgrade GS2210-24LP Firmware:

```
C:\> ftp <GS2210-24LP IP address>
User : admin
Password: 1234
230 Logged in
```

```
ftp> put 430ABE00C0.bin ras-0
ftp> bye
```

Where

- User name: the management user name, admin by default.
- Password: the management password, 1234 by default.
- 430ABE00b1.bin: the name of firmware file you want to upgrade.
- ras-0: the internal firmware name in GS2210-24LP (store at first flash).
- ras-1: the internal firmware name in GS2210-24LP (store at second flash).

Configuration Upgrade:

The GS2210-24LP 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 GS2210-24LP. The upgrade procedure is as follows:

Upgrade GS2210-24LP Configuration:

```
C:\> ftp <GS2210-24LP IP address>
User name: admin
Password: 1234
230 Logged in
ftp> put 430ABE00C0.rom rom-0
ftp> bye
```

Where

- User name: the management user name, admin by default.
- Password: the management password, 1234 by default.
- 430ABE00b1.rom: the name of configuration file you want to upgrade.
- rom-0: the internal configuration name in GS2210-24LP.