ZyXEL XS3700-24 V4.20(AASS.0)

Release Note/Manual Supplement

Date: Jan. 09, 2014

This document describes the features in the XS3700-24 product for its 4.20(AASS.0) release.

Support Platforms:

ZyXEL XS3700-24 V4.20(AASS.0) supports models: ZyXEL XS3700-24.

Version:

Bootbase Version : V1.02 | 08/27/2014
ZyNOS F/W Version : V4.20(AASS.0) | 01/09/2015

Default Bootbase Setting:

ZyNOS Version	V4.20(AASS.0) | 01/09/2015 13:47:31
Bootbase Version	V1.02 | 08/27/2014 18:00:39
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	XS3700-24
ZyNOS Code Model	XS3700
ZyNOS ROM address	b7c00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB00001A
MAC Address Quantity	26
Default Country Code	FF
Boot Module Debug Flag	01
CPLD Version	5
RomFile Version	7D
RomFile Checksum	fe97
ZyNOS Checksum	c5e9
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
02 4F 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	

Known Issue:

1. RX multicast/broadcast could not count packet number without ether-type. (only 64 bytes can count)
2. Alignment error packets count at FCS errors.
3. Packet size over 1518 without ether-type will counts as Jabber
4. Tx Packet size over 9216 will be counted as Tx Oversize packet (TOVR)
5. A filtering rule with discard source action will always filter packets regardless of source MAC or destination MAC.
6. When using three different spanning tree protocols (RSTP+MSTP+MRSTP) on the whole system, the system will loop.
7. Port movement of IPv6 address is not supported currently.
8. When RSTP is enabled with ring topology, LACP can't be activated at the same ports.
9. Config private VLAN with follow features are not recommend
   - VLAN stacking

- VLAN mapping
- RMirror

10. Configuring port isolation with remote port mirroring is not recommend
11. When spanning tree protocol is enabled and port state change from forwarding state to Discarding state, some MAC address may be re-learned in discarding port.
12. When MSTP and LACP are enabled at the same port within ring topology, after all links of the same Trunk go down, the port status will become improperly.

Main Features:

1. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
2. PWM Fan Module
3. Local console
4. 10/100/1000Mbps Ethernet Management port
5. fan-speed monitoring
6. 16K layer 2 MAC addresses table
7. 512 IP address table
8. 259 routing path
9. 256 IP multicast group
10. 4MB packet buffer
11. IEEE 802.1D transparent bridging
12. Port-based VLAN
13. IEEE 802.1Q tag-based VLAN
14. Protocol-based VLAN
15. IP subnet based VLAN
16. MAC based VLAN
17. GVRP
18. VRRP
19. IEEE802.1ad Double tagging
20. Selective QinQ
21. MAC filtering
22. Management through console, telnet, SNMP or web management
23. Firmware upgrade by FTP/TFTP
24. TFTP client / server
25. Configuration saving and retrieving
26. LED indications for link status
27. 12K jumbo frame
28. Filtering/Mirroring by L2/L3/L4 rules
29. Bandwidth control by L2/L3/L4 rules
30. Egress traffic shaping per port at 64Kbps step
31. BPDU transparency.
32. SSHv1/SSHv2/SSL
33. RFC 3164 Syslog
34. IGMP filtering
35. MVR
36. IGMP v1/v2/v3 snooping
37. IGMP snooping fast leave
38. IGMP snooping statistics
39. IGMP throttling
40. Static multicast
41. Administration user management
42. Multiple RADIUS server
43. Multiple TACACS+ servers
44. IEEE 802.1w RSTP
45. ZyXEL MRSTP
46. IEEE 802.1s MSTP
47. IEEE 802.3ah OAM
48. SNMPv3 support
49. 1K IP source guard
50. TRTCM

51. MAC authentication
52. Authentication & accounting by RADIUS / TACACS+
53. Loopguard
54. Daylight saving time support
55. IEEE 802.1ag CFM
56. IEEE 802.1AB LLDP
57. Link aggregation algorithm of source/destination IP address
58. MAC search
59. VLAN search
60. VLAN translation
61. VLAN MAC limit
62. Support transceiver DDMI information(including MIB)
63. Authorization on TACACS+
64. Layer 2 protocol tunneling
65. Support 802.3ah standard MIB
66. MLD snooping proxy
67. DHCPv6: client and relay
68. ICMPv6
69. IPv6 Path MTU
70. NDP: host and router
71. IPv6 address stateless auto-configuration: host and router
72. IPv6 static route
73. Guest VLAN
74. Password encryption
75. User access right
76. PPPoE IA and option 82
77. 384 ACL
78. 64 Policy route
79. Recovery mechanism for error-disabled port/reason.
80. CPU protection
81. sFlow
82. Private VLAN
83. Authorization on console
84. ARP Freeze
85. Static ARP setting
86. MAC pinning
87. Interface related trap can be enable/disable by port
88. 802.1AB LLDP-MED
89. DHCP option 82 profile
90. Remote port mirroring
91. ZyXEL new private MIB
92. Dual image
93. Tech support
94. DHCP Option82 per VLAN and per Port
95. ZyXEL One Network (ZON)
96. ZON Neighbor Management
97. V12Monitor

Limitation of Settings:

1.	802.1Q Static VLANs	4K
2.	Static MAC forwarding entry	256
3.	MAC filtering entry	256
4.	Cluster member	24
5.	IP routing domain	128
6.	IGMP Filtering entry	256
7.	IGMP MVR entry	256
8.	Protocol based VLAN entries per port	7
9.	Port-security max address-limit number	16K
10.	Syslog server entry	4
11.	IP source guard entry	512

12.	IP subnet based VLAN entry	16
13.	MVR VLAN entry	5
14.	Vlan-mapping entry	2K
15.	MAC table	16K
16.	L3 host route table	512
17.	DHCP snooping binding table	16K
18.	Routing path	259
19.	Multicast group	1k
20.	ACL	384
21.	Policy route	64
22.	DHCP option 82 profile	130
23.	static arp entry	256
24.	Static route max entry	64
25.	DHCP Entry	16
26.	Trunk groups	12
27.	Per trunk group port number	8
28.	MSTP instance	0-16
29.	MAC-based VLAN	1K
30.	Voice VLAN OUI entry	10
31.	IPv6 Neighbor entry	512

Firmware Upgrade:

The XS3700-24 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 XS3700-24. The upgrade procedure is as follows:

Upgrade XS3700-24 Firmware:

C:\> ftp <XS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 420AASS0C0.bin ras-0
ftp> bye

Where

- User name: the management user name, admin by default.
- Password: the management password, 1234 by default.
- 420AASS0C0.bin: the name of firmware file you want to upgrade.
- ras-0: the internal firmware name in XS3700-24 (store at first flash).
- ras-1: the internal firmware name in XS3700-24 (store at second flash).

Configuration Upgrade:

The XS3700-24 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 XS3700-24. The upgrade procedure is as follows:

Upgrade XS3700-24 Configuration:

C:\> ftp <XS3700-24 IP address>
User name: admin
Password: 1234
230 Logged in
ftp> put 420AASS0C0.rom rom-0
ftp> bye

Where

- User name: the management user name, admin by default.
- Password: the management password, 1234 by default.
- 420AASS0C0.rom: the name of configuration file you want to upgrade.
- rom-0: the internal configuration name in XS3700-24.