



**Firmware Release Note**

# **Prestige 623R-A1 Standard**

**Release 3.40(KG.1)c0**

**Date:**  
**Author:**

**August 29, 2003**  
**Sandy Liu**

# ZyXEL Prestige 623R-A1 Standard Version Release 3.40(KG.1)c0 Release Note

Date: August 29, 2003

## Supported Platforms:

ZyXEL Prestige P623R-A1 Standard Version

## Versions:

ZyNOS Version: **V3.40(KG.1)** | 9/29/2003 13:49:14

Bootbase Version: V1.05 | 11/28/2002 20:55:09

## Notes:

1. The Prestige 623R-A1 is a compact ADSL over POTS router that can be used for small-office or home-user and allows a small LAN to access the Internet through ADSL connection over the existing copper line.

- Support Multi-Mode standard (ANSI T1.413, Issue 2; G.dmt(G.992.1); G.lite(G992.2)).

- One auto-sensing 10/100M Ethernet interface

- One USB port.

- support Multi-protocol over AAL5 (RFC1483)

- Support PPP over ATM AAL5 (RFC 2364)

- Support PPP over Ethernet (RFC2516)

- Support up to 8 PVCs

- IP/IPX routing and bridging modes

- NAT/SUA for single-IP-address Internet Access

- DHCP Client, Sever and Relay

- RIP I/ RIP II supported.

- IGMP

- IP alias

- IP Policy Routing

- ICMP Router Discovery

- TFTP/FTP server for firmware upgrade

- F4/F5 OAM

- Call Scheduling for PPPoE

- Support Web Configurator

- IPSec Pass Through

- Support Remote Management

2. For PPPoE, we must turn off the PPP VJ header compression. The command is as following:  
“ppp ipcp compress off”, this command is already added into “autoexec.net”
3. Modem code version is SAMSUNG, DSP Version **110.030812**

## **Known Issues:**

1. In order to make USB work properly, “bridge mode 1” is added in autoexec.net.
2. The Sniffer Protocol will impact the USB driver installed on Windows OS, and cause the PC reboot.
3. During the downstream throughput test (line rate is 4M bps) with Alcatel 7300 DSLAM (packet size : 64 bytes), the router will reboot if the watch dog is turned on.

## **CI Command List:**

### **Features:**

#### **Modification in V3.40(KG.1)b3 | 8/20/2003**

- 1 [FEATURE ENHANCE]  
Update Modem code to 110.030812.

#### **Modification in V3.40(KG.1)b2 | 5/15/2003**

- 1 [FEATURE ENHANCE]  
Change the product ID for USB driver from 3305 to 3307.

#### **Modification in V3.40(KG.1)b1 | 4/24/2003**

- 1 [BUG FIXED]  
Symptom: CI command "wan adsl chandata" displays wrong line rate.  
Solution: Correct the calculating method to display correct value.
- 2 [BUG FIXED]  
Symptom: SMT menu 21 should not have IPX filter.  
Solution: Remove “IPX Filter Rule” from filter type.
- 3 [BUG FIXED]  
Symptom: Press 13,14 in main menu, the system will enter menu 25 under SMT & Telnet.  
Solution: Block non-valid entry numbers.
- 4 [FEATURE ENHANCE]  
Change the default Standard to “Multi-Mode”.

#### **Modification in V3.40(KG.0)b8 | 3/27/2003**

- 1 [BUG FIXED]  
Symptom: DSL is connected and then disconnected will cause USB cannot connect to device.

Condition: The device is in Bridge mode and quick bridge is enabled in autoexec.net.  
Solution: When quick bridge MPOA channel disconnected, function BrgStopShortCut is called to stop shortcut functions and clear quick bridge data structure. Stop shortcut for USB in this function.

2. [BUG FIXED]

Symptom: Modify or delete one Remote Node will make other Remote Nodes can't work.

Condition: When more than one remote nodes are configured in SMT menu 11.

Solution: Call sarRecovery() when the RN is changed in hwsar.c.

3. [BUG FIXED]

Symptom: CI command "wan adsl vendorid" displays wrong Vendor ID (the first 3 bytes).

Condition: When DSL is linked up.

Solution: Fix this bug in s5N8950.c

4. [FEATURE ENHANCE]

Add CI CMD – "WAN ADSL DETXATTEN" to decrease Tx power attenuation.

**Modification in V3.40(KG.0) | 3/19/2003 17:31:44**

1. [FEATURE ENHANCE] Turn off USB led when entering debug mode.

**Modification in V3.40(KG.0) | 3/13/2003**

2 [BUG FIXED]

Symptom: Press 2 in main menu, the system will enter menu 25 under SMT & Telnet.

Condition:

Solution: Modify SMT Menu to fix this problem.

**Modification in V3.40(KG0)b7 | 3/6/2003**

1. [BUG FIXED]

Symptom: Sometimes the DSLAM will not receive packet because the TC of S5N8950 can't receive data from UTOPIA. This problem occurred when S5N8947 SAR recover function didn't execute.

Condition: Happens only when configuring multiple PVC in bridge mode and high link rate.

Solution: Change TC init function call of S5N8950 to the front of S5N8947 SAR recover function. This change can make TC init execute before SAR init.

2. [BUG FIXED]

Symptom: It's hard to link up with Alcatel DSLAM PACBELL

Solution: Update DSP to 109.030130 to fix it.

3. [FEATURE ENHANCE] Add CI command : wan adsl cfgbd 1 <adsl standard> <MinSNRMargin> <TCM mode> <FEC R=2 mode> <Decrease Tx Power attn>

**Modification in V3.40(KG.0)b6 | 3/3/2003**

1. [BUG FIXED]

Symptom: Upgrade firmware fail

Condition: Use ftp client to update firmware, but not use correct filename for updating.

Then update firmware by eWC will fail.

Solution: We should use malloc() to allocate memory just like ftpserv. And the MAX\_RAS\_IMAGE\_SIZE is changed to 0x140000L.

4. [BUG FIXED] The USB MAC address are wrong in SMT 24.2.1 and boot up.
5. [BUG FIXED] Web – LAN setup page : when IP address contains 255 such as 203.144.255.70, It will pop up error message "Invalid IP Address Format".
6. [FEATURE ENHANCE] The default LAN DHCP pool size is 32.
7. [FEATURE ENHANCE] Add flash read/write test in HTP

#### **Modification in V3.40(KG.0)b5 | 2/14/2003**

1. [BUG FIXED] Symptom: After enter any sub manu in Smt11, the input "My Login Username" data will lost.
2. [BUG FIXED] Symptom: In SMT menu 11, if key in data in "Outgoing - My Login" and then enter next field, the character "M" in "My Password" will disappear.
3. [BUG FIXED] Symptom: In SMT menu 11, when we set bridge mode, SUA is enable.
4. [BUG FIXED] SNMP object ID is P645R-A1

#### **Modification in V3.40(KG.0)b4 | 1/6/2003 15:10:04**

1. [BUG FIXED] Symptom: The "Quick Bridge" doesn't work for USB.
2. [BUG FIXED] Symptom: Web – Diagnostic page: Loopback test always Fail
3. [BUG FIXED] Symptom: Web – Diagnostic page: Downstream Noise Margin button doesn't work
4. [BUG FIXED] Tone 224-255 value are wrong for CI command "wan adsl line far"
5. [BUG FIXED] Reset Button doesn't work
6. [BUG FIXED] USB debug message are not removed
7. [BUG FIXED] When Ping size is over 1472 bytes, ping will fail
8. [BUG FIXED]  
Symptom: System can't receive the correct the VC through SAR  
Condition: Happens only when configuring multiple PVC in bridge mode.  
Solution: Fix SAR drive to keep upstream packet transmit smooth and alive.
9. [BUG FIXED]  
Symptom: Upstream rate will not change if the link rate changed to higher from lower.  
Condition: Happens only when link rate changed from lower to higher.  
Solution: Fix SAR drive to clear Connections after link down.
10. [BUG FIXED]  
Symptom: Upstream will stop if the AX4000 bi-direction stress test.  
Condition: Happens only when configuring multiple PVC in bridge mode.  
Solution: Add work-around function to SAR drive to reset Tx buffer if the SAR buffer is overflow.
11. [BUG FIXED]  
Symptom: S5N8950 TC Upstream will stop if the AX4000 bi-direction stress test, but the S5N8947 SAR still works.  
Condition: Happens only when configuring multiple PVC in bridge mode.  
Solution: Add work-around function to SAR drive to reset S5N8950 TC register if the SAR buffer is overflow.
12. [FEATURE ENHANCED] Remove the Software Watch-Dog and replaced by Hardware Watch-Dog.

13. [FEATURE ENHANCE] Turn off USB led when HTP starts
14. [FEATURE ENHANCE] Remove flash read/write test in HTP

**Modification in V2.50(KG.0)b3 | 12/16/2002**

1. [FEATURE ENHANCE] USB Quick Bridge Incoming Portion is implemented.
2. [FEATURE ENHANCE] USB Host MAC Address will use the Ethernet MAC Address+1.
3. [FEATURE ENHANCE] Add display message for USB Host MAC.

**Modification in V2.50(KG.0)b2 | 12/16/2002**

1. [FEATURE ENHANCE] Update boot module to V1.05 for new compression mechanism. "atdc" is needed to update RAS.
2. [FEATURE CHANGE] USB blinking is now controlled by hardware.
3. [FEATURE ENHANCE] Merge the newest codes from P645R-A1.

**Modification in V2.50(KG.0)b1 | 12/12/2002**

4. [FEATURE CHANGE] Merged from P645R-A1
5. [FEATURE CHANGE] Add USB device.
6. [FEATURE ENHANCE] Modify SMT Menu 24.1 to display USB status.
7. [FEATURE ENHANCE] Add CI command "usb version" to display USB Version.
8. [FEATURE ENHANCE] Add CI command "usb driver address" to display USB Driver address, "usb driver config" to display USB configuration data, "usb driver cnt disp" to display USB traffic counts, "usb driver cnt clear" to clear traffic counts, and "usb driver reset" to reset USB device.
9. [FEATURE ENHANCE] Add CI command "usb rndis cnt disp" to display RNDIS status, and "usb rndis cnt clear" to clear status.