



Firmware Release Note

P650R-E1

Standard version

Release 3.40(KH.5)C0

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ZyXEL P650R-E1 Standard Version release 3.40(KH.5)C0 Release Note

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Supported Platforms:

ZyXEL P650R-E1

Versions:

ZyNOS Version : V3.40(KH.5) | 03/15/2004 14:57:34
Bootbase Version : V1.03 | 07/14/2003 19:13:40

Notes:

1. The version of Alcatel 50150 (ETNA) modem code is ASW_R15_9_214

Known Issues:

Features:

Modifications in V3.40(KH.5)C0 | 03/15/2004

1. Change to FCS.

Modifications in V3.40(KH.5)b1 | 03/11/2004

1. [FEATURE ENHANCED] Modify xbox nat feature.

Modifications in V3.40(KH.4)C0 | 03/05/2004

1. Add Xbox NAT support.
2. Change PHY reset to support dual PHY(AC101 and ADM7001)

Modifications in V3.40(KH.2)C0 | 02/16/2004

1. Change to FCS for OBM version.

Modifications in V3.40(KH.2)b6 | 02/12/2004

1. [BUG FIXED]
Symptom: GUI WAN gateway setting will cause endian issue.
Condition: Login in to GUI/WAN GATEWAY setting, when apply, the address setting before will not set correctly. For example, when setting 192.168.1.23 will display 23.1.168.192.

Modifications in V3.40(KH.2)b5 | 02/12/2004

2. [BUG FIXED]
Symptom: GUI WAN IP setting will cause endian issue.
Condition: Login in to GUI/WAN IP static setting, when apply, the IP address setting

before will not correctly. For example, when setting 192.168.1.23 will display 23.1.168.192.

Modifications in V3.40(KH.2)b4 | 02/10/2004

1. [FEATURE ENHANCED]
 - (1) Add traffic redirect feature
 - (2) Add remote management feature.
2. [BUG FIXED]

Symptom: The values of txgain, rxgain and targetnoise are not set into ADSL register
Condition: After setting the values of txgain, rxgain and targetnoise by CI command “wan adsl txgain”, “wan adsl rxgain”, “wan adsl targetnoise”, and rebooting the system, getting these three values are not correct.
3. [BUG FIXED]

Symptom: GUI ping long address will cause the system reset
Condition: In GUI interface Maintenance/Diagnostic/General when ping the long address www.eee.fff.sss.eee.sss.ee.eee will cause system reset.

Modifications in V 3.40(KH.2)b2 | 11/24/2003

1. [FEATURE ENHANCED]

Change modem from ASW_R15_9_190 to ASW_R15_9_214.
2. [BUG FIXED]

Symptom: In ftp test, the cell will be lost.
Condition: In ftp test, the cell's number of transfer and received will be not the same.
3. [BUG FIXED]

Symptom: The device sends wrong message to the DHCP client on renewal time and rebind time.
Condition: Use the device to be a DHCP server and other devices such as Zy10W to be a DHCP client. The device sends wrong information about renewal time and rebind time to the DHCP client.
4. [FEATURE ENHANCEMENT]

Auto-configure MSS size according MTU size
5. [FEATURE ENHANCED]

Add CI command "ip adjmss [<mss>]". This CI command is used to adjust TCP mss value.

Modifications in V 3.40(KH.2)b1 | 10/16/2003

1. [Bug Fixed]

Symptom: HTP failed at UART internal loopback test.
Condition: HTP failed at UART internal loopback test.
Solution: Perform UART external loopback test before Ethernet external loopback test.

Modifications in V 3.40(KH.1)C0 | 9/5/2003

1. [Bug Fixed]

Symptom: Unplugging and plugging back the LAN cable will reset the PHY to promiscuous mode.
Condition: Unplugging and plugging back the LAN cable will reset the PHY to promiscuous mode.
Solution: Set the mode of Ethernet PHY according to system parameters.

Modifications in V 3.40(KH.1)b5 | 9/2/2003

1. [Bug Fixed]
Symptom: Unplugging and plugging back the LAN cable will reset the PHY to promiscuous mode.
Condition: Unplugging and plugging back the LAN cable will reset the PHY to promiscuous mode.
Solution: Set the mode of Ethernet PHY according to system parameters.

Modifications in V 3.40(KH.1)b4 | 8/29/2003

1. [Bug Fixed]
Symptom: Unplugging and plugging back the LAN cable will reset the PHY to promiscuous mode.
Condition: Unplugging and plugging back the LAN cable will reset the PHY to promiscuous mode.
Solution: Set the PHY to accept only broadcast and multicast packets during initialization.

Modifications in V 3.40(KH.1)b3 | 8/21/2003

1. [Bug Fixed]
Symptom: System reboot during loop measurement.
Condition: System reboot during loop measurement.
Solution: Add work-around in RAPI. ST will fix it in the future.

Modifications in V 3.40(KH.1)b2 | 8/4/2003

1. [Bug Fixed]
Symptom: eWC system statistics displayed extra characters.
Condition: eWC system statistics displayed extra characters.
Solution: Add '\0' at the end of the status string.

Modifications in V 3.40(KH.1)b1 | 7/31/2003

1. [Bug Fixed]
Symptom: UPnP didn't work.
Condition: UPnP discovery is ok, but MSN Messenger cannot pass through.
Solution: Fix the endian issue in the IGD functions.
2. [Bug Fixed]
Symptom: The username and password fields in eWC had extra character after saving encapsulation in ENET or 1483 modes.
Condition: The username and password fields in eWC had extra character after saving encapsulation in ENET or 1483 modes.
Solution: Remove the extra character in eWC.
3. [Bug Fixed]
Symptom: After disconnecting the physical layer, the upper layer would still stay in active mode for a while.
Condition: After disconnecting the physical layer, the upper layer would still stay in active mode for a while.
Solution: Modify the mechanism for disconnecting the ADSL.

Modifications in V 3.40(KH.0)C0 | 7/10/2003

1. [Bug Fixed]
Symptom: System reboot during loop measurement.
Condition: System reboot during loop measurement.
Solution: Add work-around in RAPI. ST will fix it in the future.
2. [Bug Fixed]
Symptom: UPnP didn't work.
Condition: UPnP discovery is ok, but MSN Messenger cannot pass through.
Solution: Fix the endian issue in the IGD functions.

Modifications in V 3.40(KH.0)b14 | 7/2/2003

1. [Bug Fixed]
Symptom: In web configurator, IP addresses were displayed incorrectly.
Condition: In web configurator, IP addresses were shown inversely.
Solution: Fix the endian issue in the Wizard.
2. [Bug Fixed]
Symptom: System exception occurred during the diagnostics of PPPoA WEB configurations.
Condition: System exception occurred if the previous setting is PPPoE connection.
Solution: Wait for the completion of ATM setup before sending OAM packets.

Modifications in V 3.40(KH.0)b13 | 6/30/2003

1. [Bug Fixed]
Symptom: In web configurator, IP addresses were displayed incorrectly.
Condition: In web configurator, IP addresses were shown inversely.
Solution: Fix the endian issue in the Wizard.
2. [Bug Fixed]
Symptom: Routing mode throughput result was poor with 256 and 512 bytes packets and 10Mbps Ethernet setting.
Condition: Routing mode throughput result was poor with 256 and 512 bytes packets and 10Mbps Ethernet setting.
Solution: Enlarge the number of Tx and Rx descriptors.
3. [Bug Fixed]
Symptom: System exception occurred during the diagnostics of PPPoA and Connect on demand WEB configurations.
Condition: System exception occurred during the diagnostics of PPPoA and Connect on demand WEB configurations.
Solution: Wait for the completion of ATM setup before sending OAM packets.
4. [Bug Fixed]
Symptom: In WEB configurator, WAN setup page cannot set Max Idle Timeout.
Condition: In WEB configurator, WAN setup page cannot set Max Idle Timeout.
Solution: Synchronized with the trunk.
5. [Bug Fixed]
Symptom: System exception occurred when communicating with the Datetime server at PQA.

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Condition: System exception occurred when communicating with the Datetime server at PQA.

Solution: Check the message format before parsing the Datetime message.

Modifications in V 3.40(KH.0)b12 | 6/20/2003

1. [Bug Fixed]
Symptom: Diagnostics after Wizard setup failed.
Condition: Diagnostics after Wizard setup failed.
Solution: Implement the diagnostics in the Wizard.
2. [Bug Fixed]
Symptom: In web configurator, WAN IP was displayed incorrectly.
Condition: In web configurator, WAN IP was shown inversely.
Solution: Fix the endian issue in the Wizard.
3. [Bug Fixed]
Symptom: Cannot set VBR as the ATM QoS property.
Condition: Cannot set VBR as the ATM QoS property.
Solution: Add ETNA definition.
4. [Bug Fixed]
Symptom: Exception happened unexpected.
Condition: Exception happened unexpected.
Solution: Change compiler from GHS 3.2 to GHS 3.6.1.

Modifications in V 3.40(KH.0)b11 | 6/11/2003

1. [Bug Fixed]
Symptom: Menu 24.1 showed incorrect Ethernet collision count.
Condition: Menu 24.1 showed incorrect Ethernet collision count.
Solution: Add ETNA definition in EtherGetColCnt().
2. [Bug Fixed]
Symptom: In web configurator, one space showed in user name and password fields when configuring PPPoE.
Condition: In web configurator, one space showed in user name and password fields when configuring PPPoE.
Solution: Set user name and password as required fields in Menu 4.
3. [Bug Fixed]
Symptom: WAN help page was missing.
Condition: WAN help page was missing.
Solution: Synchronized with the trunk.

Modifications in V 3.40(KH.0)b10 | 5/13/2003

1. [Bug Fixed]
Symptom: RFC 1483 bridged mode won't work.
Condition: RFC 1483 bridged mode won't work.
Solution: Synchronized with trunk again.

Modifications in V 3.40(KH.0)b9 | 5/9/2003

1. [Bug Fixed]

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Symptom: Cannot set bridged mode in web configurator.

Condition: No settings for RFC 1483 bridged mode.

Solution: Synchronized with trunk.

2. [Bug Fixed]

Symptom: The ATM loopback function in web configurator won't work.

Condition: The ATM loopback showed successfully even when the ADSL line disconnected.

Solution: Implement the functionality.

3. [Bug Fixed]

Symptom: Firmware upload failed in web configurator.

Condition: The ATM loopback showed successfully even when the ADSL line disconnected.

Solution: Implement the functionality.

4. [Bug Fixed]

Symptom: Performing throughput test using SmartBit would cause system to crash.

Condition: If network traffic exceeded line rate, SAR engine would corrupt Rx descriptor list.

Solution: Re-initialize the Rx descriptor list when overflowed condition occurred.

5. [Bug Fixed]

Symptom: The value of noise margin was incorrect.

Condition: Web configurator showed the downstream noise margin even when the ADSL link is down.

Solution: Check modem status before getting downstream noise margin.

6. [Bug Fixed]

Symptom: SNMP client cannot get system object ID.

Condition: SNMP client cannot get sysObjectID.

Solution: Endian issue.

7. [Bug Fixed]

Symptom: Setting the same VPI/VCI for different channels was allowed.

Condition: User should see error message when trying to set the same VPI/VCI for different channels.

Solution: Synchronized with the trunk.

8. [Bug Fixed]

Symptom: After uploading firmware, the system got into debug mode.

Condition: The system got into debug mode after uploading firmware. It should get into operation mode instead.

Solution: Clear the debug flag in boot module.

9. [Bug Fixed]

Symptom: NTP, Time, Datetime protocols didn't work.

Condition: NTP, Time, Datetime protocols didn't work.

Solution: Implementation and endian issue.

Modifications in V 3.40(KH.0)b7 | 4/10/2003

1. [Bug Fixed]

Symptom: The throughput test failed for 8 active remote nodes (all in bridged mode).

Condition: Error messages displayed continuously while AX4000 generating network

traffic.

Solution: Modified etnasarisr.c.

2. [Bug Fixed]

Symptom: The throughput test failed for 8 active remote nodes (4 in bridged mode, and 4 in routing mode).

Condition: Error messages displayed continuously while AX4000 generating network traffic.

Solution: Modified etnasarisr.c.

3. [Bug Fixed]

Symptom: PPPoE cannot dial-up by setting the SMT or eWC.

Condition: Error messages displayed continuously after changing the VPI/VCI of a remote node.

Solution: Modified etnasarlld.c.

4. [Bug Fixed]

Symptom: PPPoA cannot dial-up by setting the SMT or eWC.

Condition: Error messages displayed continuously after changing the VPI/VCI of a remote node.

Solution: Modified etnasarlld.c.

5. [Bug Fixed]

Symptom: Error messages displayed continuously after changing the VPI/VCI of a remote node.

Condition: Error messages displayed continuously after changing the VPI/VCI of a remote node.

Solution: Modified etnasarlld.c.

6. [Bug Fixed]

Symptom: In menu 3, pressing enter key entered the sub menu continuously.

Condition: In menu 3, pressing enter key entered the sub menu continuously.

Solution: Synchronized the trunk of smt3.c.

7. [Bug Fixed]

Symptom: Enter CLI commands, “wan adsl txgain”, “wan adsl rxgain”, and “wan adsl targetnoise” caused ADSL link disconnected.

Condition: Enter CLI commands, “wan adsl txgain”, “wan adsl rxgain”, and “wan adsl targetnoise” caused ADSL link disconnected.

Solution: Synchronized the trunk of ctrleci.c.

8. [Bug Fixed]

Symptom: Set the debug flag to 0 in boottext, the system can still update bootbase and MAC address.

Condition: Set the debug flag to 0 in boottext, the system can still update bootbase and MAC address.

Solution: Modified boottext to check the debug flag.

9. [Bug Fixed]

Symptom: Debug message displayed while system boot-up.

Condition: Debug message displayed while system boot-up.

Solution: Remove the debug message.

10. [Bug Fixed]

Symptom: WAN status displayed wrong message in menu 24.1.

Condition: WAN status displayed wrong message in menu 24.1.

Solution: Add one state, handshaking, during the training of the ADSL link.

11. [Bug Fixed]

Symptom: WAN upstream speed displayed wrong message in menu 24.1.

Condition: WAN upstream speed displayed wrong message in menu 24.1.

Solution: Make sure we get the upstream speed from CtrlE.

12. [Bug Fixed]

Symptom: WAN downstream speed displayed wrong message in menu 24.1.

Condition: WAN downstream speed displayed wrong message in menu 24.1.

Solution: Make sure we get the upstream speed from CtrlE.

13. [Bug Fixed]

Symptom: The SmartBit throughput measurements were not consistent in 3 rounds of test.

Condition: The SmartBit throughput measurements were not consistent in 3 rounds of test.

Solution: Changed the interrupt level of status message from 3 to 1. Modified etnasarlld.c

14. [Bug Fixed]

Symptom: The system didn't enter the debug mode directly after pressing "Y" in menu 24.7.1.

Condition: The system rebooted instead of entering debug mode.

Solution: Invalidating the cache after the user pressing "Y" in menu 24.7.1. Modified a4arm.s and bmitfarm.c

15. [Bug Fixed]

Symptom: The system didn't enter the debug mode directly after pressing "Y" in menu 24.7.2.

Condition: The system rebooted instead of entering debug mode.

Solution: Invalidating the cache after the user pressing "Y" in menu 24.7.2. Modified a4arm.s and bmitfarm.c

Modifications in V 3.40(KH.0)b6 | 3/31/2003

1. [Bug Fixed]

Symptom: WAN connection didn't allow any packets to pass through.

Condition: The ADSL link was still up, but no packets can pass through the WAN connection.

Solution: Modified etnasarisr.c.

2. [Bug Fixed]

Symptom: "CTRL_E_READ get semaphore error" message showed in error log.

Condition: "CTRL_E_READ get semaphore error" message showed in error log.

Solution: Modified the ctrleapi.c.

Modifications in V 3.40(KH.0)b5 | 3/25/2003

1. [Bug Fixed]

Symptom: System restarted unexpectedly. Sometimes it was shown Prefetch Abort.

Condition: It's much easier to re-produce the problem if the traffic is heavy and the router is set as RFC 1483 bridged mode.

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Solution: Modified the sptfile.c and sys_proc.c.

2. [Bug Fixed]

Symptom: Unplugging and plugging back the Ethernet connection caused the system to reboot.

Condition: With network traffic passing through the Ethernet, unplugging and plugging back the Ethernet caused the system to reboot.

Solution: Modified the armmac.c.

Modifications in V 3.40(KH.0)b4 | 3/11/2003

1. [Bug Fixed]

Symptom: Pressing the restore factory default button could not restore the correct factory default settings.

Condition: Pressing the restore factory default button could not restore the correct factory default settings.

Solution: Modified the default ROM file and rebuild the RAS.

2. [Bug Fixed]

Symptom: In debugging mode, the “atsh” command displayed wrong bootbase version number.

Condition: Powering off and on the system in a short period of time.

Solution: Modified the mechanism of checking the “cold start” in bootbase.

Modifications in V 3.40(KH.0)b3 | 3/10/2003

1. Corrected ZyNOS checksum in release note.

2. [Bug Fixed]

Symptom: Changing the remote node settings to “bridged” mode caused system to reset.

Condition: The system will reset when ADSL link up if some of the remote nodes are in “bridged” mode

Solution: Modified function in “bcproute.c”

Modifications in V 3.40(KH.0)b2 | 3/6/2003

1. Rename version from 3.40(KH.0)b1.