ZyXEL

Firmware Release Note

P645R-A1
Standard version

Release 3.40(GJ.4) C0

Date: April 12, 2004
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Supported Platforms:

Samsung 9847+9850+8951

Versions:

ZyNOS Version   : V3.40(GJ.4)| 4/12/2004 17:32:57
Bootbase Version   : V1.07 | 5/21/2003 22:07:38
Notes:

1. The P645R-A1 (ADSL Router) is a small-office and home device that will allow a small LAN to access the Internet. By integrating ADSL, and NAT capability, P645R-A1 provides not only the ease of installation and Internet access, but also the most completed security solution to protect your intranet and efficient network management for data traffic.
    The P645R-A1 provides four single auto-sensing, auto-detection 10/100BASE-T Ethernet ports for connection to the user's local network, and a single RJ-11 port for connection to ADSL line.
Main features:
   - ADSL
     - Support Multi-Mode standard (ANSI T1.413,Issue 2 ; G.dmt(G.992.1); G.lite(G992.2)).
     - Auto-negotiating rate adaptation
     - ADSL physical connection ATM AAL5 (ATM Adaptation Layer type 5)
     - Support multi-protocol over AAL5 (RFC1483)
     - Support PPP over ATM AAL5 (RFC2364)
     - PPP over Ethernet support for DSL connection (RFC 2516)
     - Support VC-based and LLC-based multiplexing
     - F4/F5 OAM
   - Hardware
     - One 10/100M Ethernet UTP ports for LAN connection
   - Router
     - NAT (includes multi-to-multi NAT) / SUA
     - Packet Filter
     - VPN (IPSec, PPTP, & L2TP) pass through support
     - Port forwarding
     - Embedded Web Configuration
     - SNMP v1 & v2c with MIB II
     -

2. Modem code version: SAMSUNG, DSP Version 110.030909
3. Modem Setting :

ADSL Standard	Multi
MinSNRMargin	6 db
TCM mode	ON
FEC R=2 mode	OFF

Tx Power attn	Normal db

Known Issues:

1. When setting SMT menu4 "IP Address Assignment= Dynamic",
   into menu11.3 will show "IP Address Assignment = Static".
   It is not consistency each other.

Features:

Modification in 3.40(GJ.4)C0 (April 12,2004)
1   Change to FCS
2   Change default Rom file `,change Menu 24.11 - Remote Management Control from All to Lan only`

Modification in 3.40(GJ.4) b2 (April 5,2004)

1.[BUG FIXED]
  Symptom: In eWC ping illegal url will get a success feedback
  Condition: ping illegal url In eWC ,on conditions that you can ping success with wan port.
2.[BUG FIXED]
  Symptom: the system occur exception
  Condition: In eWC ping character is longer than 32 bytes
3.[BUG FIXED]
  Symptom: The system occur exception
  Condition: we change Remote management Telnet Access Status field in eWC/Remote
management/Telnet like "All" change to "LAN only" , "LAN only" change to "WAN only".
4.[BUG FIXD]
  Symptom: it will show error message(ip format error) In eWC
  Condition: you select In eWC Advanced Setup/ NAT/Full Feature /Edit Details/Rule1(n) /type one-to-one
  Click Local end ip field ,this error message will show
5.[BUG FIXED]
  Symptom: unix log can't be sent out
 Condition: In smt 24-3-2 set unix trace log active.
6.[BUG FIXED]
  Symptom : system will   run into wrong state and won't process it
 Condition : If there is a second CHAP challenge packet incoming, system will
   run into wrong state and won't process it
Modification in 3.40(GJ.4) b1 (Mar 15,2004)
1.[Bug fixed]
   Symptom: Setting PPPoe User name and password.
   Condition: When set NULL to User name and Pass word in SMT4, in eWC you will see a space on
                both user name and pass word filed.

Modification in 3.40(GJ.3)C0(Mar 5, 2004)
1 Change to FCS.

Modification in 3.40(GJ.3)b4(February 20, 2004)
1.[BUG FIXED]
 Symptom: arp table could not age out. And ping failed
 Condition: pc have same ip address as one of arp tables and different mac address
2.[BUG FIXED]
 Symptom: icmp ping time to exceed when NAT off.
Conditon: the first icmp packet's ttl be always equal to zero. this makes time to exceed.
Modification in 3.40(GJ.3)b3 (October 2, 2003)
1.   Update DSP code to 110.030909 to fix the problem of ECI DSLAM and IES-1000.

2. [BUG FIXED]
   Symptom: The PPPoA connection trigger by Ethernet packet will fail, reset device can recover it.
   Condition: After several times of reboot.

Modification in 3.40(GJ.3)b1 (July 18, 2003)
1. [FEATURE ENHANCE] Add the SMT 24.10 - Time and Date Setting and SMT 24.11 - Remote Management.
2. [FEATURE ENHANCE] Reduce the F/W size by adjust the MMCT table and reduce HTP code size.
3. Update DSP code to 109.030508.
4. [BUG FIXED]
   Symptom: The "ping" and "tracert" confused when user tried to test many targets at the same time..
   Condition: In Routing, NAT mode.

Modification in 3.40(GJ.2)b12 (May 23, 2003)
1. [FEATURE ENHANCE] Add the CI command for the request of TE to decrease the test period.
2. [BUG FIXED]
   Symptom: The service provider default set to WWW.DDNS.ORG not WWW.DynDNS.ORG. The default setting should be WWW.DynDNS.ORG.
   Condition: In the SMT and Web Configurator..

Modification in 3.40(GJ.2)b11 (May 22, 2003)
1. Update S5N8950 ADSL Debug Information to version 4.01.
2. Performance enhanced (about 20% in throughput test) by decrease SDRAM delay timer.
   Please also upgrade Bootbase to GJ1.07 when upgrade Ras to 3.40(GJ.2)b11.

Modification in 3.40(GJ.2)b10 (May 12, 2003)
1. Change the default setting to ENET ENCAP from PPPoE.
2. Change ARM MAC Rx/Tx buffer descriptor number to 64 from 60.
3. Change ARM MAC Rx/Tx buffer descriptor start address to 8-bit alignment.
4. [BUG FIXED] Merge the bug fixed from trunk 3.40.
5. [BUG FIXED]
   Symptom: Press 13/14 in main menu, the system will accept under SMT & Telnet.
   Condition:

Modification in 3.40(GJ.2)b9 (May 08, 2003)
1. Change the default setting to PPPoE from ENET ENCAP.
Modification in 3.40(GJ.2)b8 (February 28, 2003)
1. [BUG FIXED]
   Symptom: It's hard to link up with Siemens TI DSLAM in TianJin.
   Condition: S5N8950 got some noise in the handshake state.

Modification in 3.40(GJ.2)b4 (January 15, 2003)
1. [BUG FIXED]
   Symptom: System can't receive the correct the VC through SAR
   Condition: Happens only when configuring multiple PVC in bridge mode.
2. [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.
3. [BUG FIXED]
   Symptom: Upstream will stop if the AX4000 bi-direction stress test.
   Condition: Happens only when configuring multiple PVC in bridge mode.

4. [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.

Modification in 3.40(GJ.1)b3

1. Change DSP code to version 109.151220.

Modification in 3.40(GJ.1)b2 (Nov 28, 2002)

1. Change DSP code to version 109.021203.