



Firmware Release Note

**Prestige P645R-A2
for 16bit SDRAM**

Release 3.40(NM.0)C0

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Prestige P645R-A1 3.40(NM.0)C0 Release Note

Supported Platforms:

Samsung 9847+9850+8951

Versions:

ZyNOS Version: V3.40(NM.0) | 6/2/2003 9:59:52

Bootbase Version: V1.07 | 5/21/2003 23:02:15

Notes:

1. The P645R-A2 (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-A2 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-A2 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(G.992.2)).
- 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
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2. Modem code version: SAMSUNG, DSP Version 109.030225

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 Downstream Throughput test will be lower than P645R/M-A1 using 32bit DRAM.
- 2 Ethernet blink timer will be lower than P645R/M-A1 using AC101L.
- 3 Doing the Throughput test (Up/Down) and using high rate will make system reboot by Watch-Dog.
So please turn off the Watch-Dog when doing the Throughput test.

Features:

Modification in 3.40(NM.0)b6 (May 29, 2003)

1. [FEATURE ENHANCE] Add the CI command for the request of TE to decrease the test period.

Modification in 3.40(NM.0)b5 (May 22, 2003)

2. Update S5N8950 ADSL Debug Information to version 4.01.
3. Performance enhanced (about 20% in throughput test) by decrease SDRAM delay timer.
Please also upgrade Bootbase to NM1.07 when upgrade Ras to 3.40(NM.0)b5.
4. [BUG FIXED]
Symptom: The service provider default set to WWW.DDNS.ORG not WWW.DynDNS.ORG
Condition: In the SMT and Web Configurator..
Solution: Fix this bug by update the DDNS default setting.

Modification in 3.40(NM.0)b4 (May 20, 2003)

1. [BUG FIXED]
Symptom: Can't disable Watch-Dog and it'll make system reboot.
Condition: When doing the Throughput test and using high rate.
Solution: Fix this bug by change the disable Watch-Dog function.

Modification in 3.40(NM.0)b3 (May 8, 2003)

1. Updated DSP code to 109.030225 from 109.030306.
2. [BUG FIXED] Merge the bug fixed from trunk 3.40.
3. [BUG FIXED]
Symptom: Didn't display "Idle" in the SMT 24.1.
Condition: when the Encapsulation is PPP.
Solution: Fix this bug in smt24_1.c.
4. [BUG FIXED]
Symptom: Sometimes the TC will be hang-up and then the Tx packet will not be received by CO side.

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Condition: After more than 40 hours.

Solution: Check the TC register to init TC if it's changed.

5. [BUG FIXED]

Symptom: In routing mode , when the Encapsulation is PPP or PPPoE.

The memory (mbuf) will no be freed so the packet can't be Rx/Tx.

Condition: With S5N8947 ES3, 16bit SDRAM.

Solution: Fix this bug as Samsung - S5N8947 Errata-021014 document.

Modification in 3.40(NM.0)b2 (May 2, 2003)

6. [BUG FIXED]

Symptom: Didn't display "Idle" in the SMT 24.1.

Condition: when the Encapsulation is PPP.

Solution: Fix this bug in smt24_1.c.