

Prestige P650HW-13 3.40(GH.0) Standard Version Release Note

Date: August 5, 2002

Supported Platforms:

TOSHIBA TMPR39280F

Versions:

ZyNOS Version: V3.40(GH.0) | 8/5/2002

Bootbase Version: V1.05 | 7/29/2002 11:53:18

Notes:

1. The P650HW-13 (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, P650HW-13 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 P650HW-13 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

- Four 10/100M Ethernet UTP ports for LAN connection
- Restore Factory Defaults/Reboot button
- Wireless LAN support

- 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. ADSL modem code is Alcatel 2.7.38

Modification/ Bug fixes:

Modification in 3.40(GH.0)b5 (July 31, 2002)

1. [BUG FIX] 64 bytes throughput is bad which is tested by Smartbit2000

Modification in 3.40(GH.0)b4 (July 30, 2002)

1. [ENHANCEMENT] Boot module is upgraded to 1.05 , because the model name is changed
2. [ENHANCEMENT] Modify encapsulation pattern “PPP” to be “PPPoA” in SMT and also Web/Wizard setup
3. [BUG FIX] In HTP, the LAN external test failure is fixed
4. [BUG FIX] In Web/GUI, the F/W upgrade doesn’t work in IE 5.0 version 3315

Modification in 3.40(GH.0)b3 (July 25, 2002)

1. [ENHANCEMENT] The model name in main menu should differentiate P650HW-11 or P650HW-13, but it’s related with boot module
2. [ENHANCEMENT] The ADSL disconnecting should be done by defect bitmap checking that means the logs “L1 shutdown by nlosFailnow” will be logged when ADSL is disconnected
3. [BUG FIX] ATM Rx ISR should check bad packets like CRC or length error, that is the reason why the chamber test failed and exception happened
4. [BUG FIX] Reject a SYN-ACK packets which causes embedded server Telnet/FTP/HTTP failure
5. [BUG FIX] Plug and unplug will cause system ATM initial failure and exception error
6. [BUG FIX] System hang up if press enter key in SMT menu 3.2 quickly

Modification in 3.40(GH.0)b2 (June21, 2002)

1. In Web/GUI, add Wireless page and MAC address filtering, add SMT 3.5.1 WLAN MAC address filter
2. Modify wireless driver for support wireless card version 3.0
3. Add a command “wlan version” to display the wireless card version
4. In HTP testing, add wireless LAN card testing, but it’s only for command “atgt”

Modification in 3.40(GH.0)a1 (April 18, 2002)

1. Add wireless LAN support

Fixes in 3.40(GH.0)b2 (June 21, 2002)

1. Wireless LAN led doesn’t display correctly
2. In SPTGEN feature, the length of login name must support to 45 characters

Fixes in 3.40(GH.0)b1 (April 25, 2002)

1. In debug mode AT command "atd" doesn't work

Known bugs:

1. Sometimes PC can't link with P650HW through wireless channel which is only happened in Windows 2000 OS, and PC had accessed other wireless access point. In order to solve this problem, you may force to assign the same ESSID which is used in P650HW

1. Manufactory Data in Bootbase

```
ZyNOS Version      : V3.40 (GH.0) | 8/5/2002 11:57:39
Bootbase Version   : V1.05 | 7/29/2002 11:53:18
Vendor Name        : ZyXEL Communications Corp.
Product Model      : Prestige 650HW-13
ZyNOS Code Model    : P650HW-13 ATU-R
System Type        : 6
MAC Address        : 00A0C5012345
Default Country Code : FF
Boot Module Debug Flag : 01
RomFile Version     : 28
RomFile Checksum    : da4f
ZyNOS Checksum      : 3cfd
SNMP MIB level & OID : 060102030405060708091011121314151617181920
Main Feature Bits   : 86
Other Feature Bits   :
                    92 08 00 00 00 00 00 00-00 00 00 00 00 00 00 00
                    00 00 00 00 00 00 00 00-00 40 13 40 00 00
```

1. Default ROM File Value Setting

- **Menu 1: General Setup**

```
Menu 1 - General Setup

System Name= ?
Location=
Contact Person's Name=
Domain Name=
Edit Dynamic DNS= No

Route IP= Yes
Bridge= No

Press ENTER to Confirm or ESC to Cancel:
```

- **Menu 3 - Ethernet Setup**

```
Menu 3 - Ethernet Setup

1. LAN Port Filter Setup
2. TCP/IP and DHCP Setup

5. Wireless LAN Setup

Enter Menu Selection Number:
```

- **Menu 3.1 - LAN Port Filter Setup**

```
Menu 3.1 - LAN Port Filter Setup

Input Filter Sets:
  protocol filters=
  device filters=
Output Filter Sets:
  protocol filters=
  device filters=

Press ENTER to Confirm or ESC to Cancel:
```

- **Menu 3.2 - TCP/IP and DHCP Ethernet Setup**

```
Menu 3.2 - TCP/IP and DHCP Ethernet Setup

DHCP Setup
  DHCP= Server
  Client IP Pool Starting Address= 192.168.1.33
  Size of Client IP Pool= 32
  Primary DNS Server= 0.0.0.0
  Secondary DNS Server= 0.0.0.0
  Remote DHCP Server= N/A
TCP/IP Setup:
  IP Address= 192.168.1.1
  IP Subnet Mask= 255.255.255.0
  RIP Direction= Both
    Version= RIP-1
  Multicast= None
  IP Policies=
  Edit IP Alias= No

Press ENTER to Confirm or ESC to Cancel:
```

- **Menu 3.5 – Wireless LAN Setup**

```
Menu 3.5- Wireless LAN Setup

ESSID= Wireless
Hide ESSID= No
Channel ID= CH01 2412MHz
RTS Threshold= 2432
Frag. Threshold= 2432
WEP= Disable
  Default Key= N/A
  Key1= N/A
  Key2= N/A
  Key3= N/A
  Key4= N/A
Edit MAC Address Filter= No

Press ENTER to Confirm or ESC to Cancel:
```

- **Menu 3.5.1 - WLAN MAC Address Filter**

```
Menu 3.5.1 - WLAN MAC Address Filter

Active= No
Filter Action= Allowed Association
MAC Address Filter
  Address 1= 00:00:00:00:00:00
  Address 2= 00:00:00:00:00:00
  Address 3= 00:00:00:00:00:00
  Address 4= 00:00:00:00:00:00
  Address 5= 00:00:00:00:00:00
  Address 6= 00:00:00:00:00:00
  Address 7= 00:00:00:00:00:00
  Address 8= 00:00:00:00:00:00
  Address 9= 00:00:00:00:00:00
  Address 10= 00:00:00:00:00:00
  Address 11= 00:00:00:00:00:00
  Address 12= 00:00:00:00:00:00

Press ENTER to Confirm or ESC to Cancel:
```

- Menu 4 - Internet Access Setup

```

Menu 4 - Internet Access Setup

ISP's Name= MyISP
Encapsulation= ENET ENCAP
Multiplexing= LLC-based
VPI #= 8
VCI #= 35
ATM QoS Type= UBR
    Peak Cell Rate (PCR)= 0
    Sustain Cell Rate (SCR)= 0
    Maximum Burst Size (MBS)= 0
My Login= N/A
My Password= N/A
ENET ENCAP Gateway= N/A
IP Address Assignment= Dynamic
    IP Address= N/A
Network Address Translation= SUA Only
    Address Mapping Set= N/A

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 11 Remote Node Setup

```

Menu 11 - Remote Node Setup

1. MyISP (ISP, SUA)
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Enter Node # to Edit:

```

- Menu 11.1 Remote Node Profile

```

Menu 11.1 - Remote Node Profile

Rem Node Name= MyISP          Route= IP
Active= Yes                   Bridge= No

Encapsulation= ENET ENCAP      Edit IP/Bridge= No
Multiplexing= LLC-based        Edit ATM Options= No
Service Name= N/A
Incoming:                      Telco Option:
    Rem Login= N/A              Allocated Budget(min)= N/A
    Rem Password= N/A          Period(hr)= N/A
Outgoing:                      Schedule Sets= N/A
    My Login= N/A              Nailed-Up Connection= N/A
    My Password= N/A          Session Options:
    Authen= N/A                Edit Filter Sets= No
                                Idle Timeout(sec)= N/A

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 11.3 Remote Node Network Layer Options**

```

Menu 11.3 - Remote Node Network Layer Options

IP Options:                                Bridge Options:
IP Address Assignment = Dynamic            Ethernet Addr Timeout(min)= N/A
Rem IP Addr = 0.0.0.0
Rem Subnet Mask= 0.0.0.0
My WAN Addr= N/A
NAT= SUA Only
    Address Mapping Set= N/A
Metric= 2
Private= No
RIP Direction= None
    Version= RIP-1
Multicast= None
IP Policies=

Enter here to CONFIRM or ESC to CANCEL:

```

- **Menu 11.5 Remote Node Filter**

```

Menu 11.5 - Remote Node Filter

Input Filter Sets:
    protocol filters= 12, 11
    device filters=
Output Filter Sets:
    protocol filters=
    device filters=

Enter here to CONFIRM or ESC to CANCEL:

```

- **Menu 11.6 - Remote Node ATM Layer Options**

```

Menu 11.6 - Remote Node ATM Layer Options
VPI/VCI (LLC-Multiplexing or PPP-Encapsulation)

VPI #= 8
VCI #= 35
ATM QoS Type= UBR
Peak Cell Rate (PCR)= 0
Sustain Cell Rate (SCR)= 0
Maximum Burst Size (MBS)= 0

Enter here to CONFIRM or ESC to CANCEL:

```

- **Menu 12 - Static Route Setup**

```

Menu 12 - Static Route Setup

1. IP Static Route
3. Bridge Static Route

Please enter selection:

```


- **Menu 12.1 IP Static Route Setup**

Menu 12.1 - IP Static Route Setup	
1.	_____
2.	_____
3.	_____
4.	_____
5.	_____
6.	_____
7.	_____
8.	_____
9.	_____
10.	_____
11.	_____
12.	_____
13.	_____
14.	_____
15.	_____
16.	_____
Enter selection number:	

- **Menu 12.3 Bridge Static Route Setup**

Menu 12.3 - Bridge Static Route Setup	
1.	_____
2.	_____
3.	_____
4.	_____
Enter selection number:	

- **Menu 15 - NAT Setup**

Menu 15 - NAT Setup	
1.	Address Mapping Sets
2.	NAT Server Sets
Enter Menu Selection Number:	

- **Menu 15.1 - Address Mapping Sets**

Menu 15.1 - Address Mapping Sets	
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
255.	SUA (read only)
Enter Menu Selection Number:	

- Menu 15.2 - NAT Server Sets

```

Menu 15.2 - NAT Server Sets

1. Server Set 1 (Used for SUA Only)
2. Server Set 2
3. Server Set 3
4. Server Set 4
5. Server Set 5
6. Server Set 6
7. Server Set 7
8. Server Set 8
9. Server Set 9
10. Server Set 10

Enter Set Number to Edit:

```

- Menu 15.2.1 - NAT Server Setup (Used for SUA Only)

```

Menu 15.2.1 - NAT Server Setup (Used for SUA Only)

Rule      Start Port No.  End Port No.  IP Address
-----
1.      Default      Default      0.0.0.0
2.       0           0           0.0.0.0
3.       0           0           0.0.0.0
4.       0           0           0.0.0.0
5.       0           0           0.0.0.0
6.       0           0           0.0.0.0
7.       0           0           0.0.0.0
8.       0           0           0.0.0.0
9.       0           0           0.0.0.0
10.      0           0           0.0.0.0
11.      0           0           0.0.0.0
12.      0           0           0.0.0.0

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21 Filter Set Configuration

```

Menu 21 - Filter Set Configuration

Filter Set #      Comments      Filter Set #      Comments
-----
1                _____      7                _____
2      NetBIOS_WAN      8                _____
3      NetBIOS_LAN      9                _____
4                _____      10               _____
5                _____      11      WebSet1
6                _____      12      WebSet2

Enter Filter Set Number to Configure= 0

Edit Comments= N/A

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 21.2 Filter Rules Summary

Menu 21.2 - Filter Rules Summary						
#	A	Type	Filter Rules			M m n
-	-	-	-	-	-	-
1	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=137			N D N
2	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=138			N D N
3	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=139			N D N
4	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=137			N D N
5	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=138			N D N
6	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=139			N D F

- Menu 21.3 Filter Rules Summary

Menu 21.3 - Filter Rules Summary						
#	A	Type	Filter Rules			M m n
-	-	-	-	-	-	-
1	Y	IP	Pr=17, SA=0.0.0.0, SP=137, DA=0.0.0.0, DP=53			N D F
2	N					
3	N					
4	N					
5	N					
6	N					

- Menu 21.11 Filter Rules Summary

Menu 21.11 - Filter Rules Summary						
#	A	Type	Filter Rules			M m n
-	-	-	-	-	-	-
1	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=161			N D N
2	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=162			N D F
3	N					
4	N					
5	N					
6	N					

- Menu 21.12 Filter Rules Summary

Menu 21.12 - Filter Rules Summary						
#	A	Type	Filter Rules			M m n
-	-	-	-	-	-	-
1	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=23			N D N
2	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=21			N D N
3	Y	IP	Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=69			N D N
4	Y	IP	Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=80			N D N
5	N					
6	N					

- **Menu 22 - SNMP Configuration:**

```
Menu 22 - SNMP Configuration

SNMP:
  Get Community= public
  Set Community= public
  Trusted Host= 0.0.0.0
  Trap:
    Community= public
    Destination= 0.0.0.0

Press ENTER to Confirm or ESC to Cancel:
```

- **Menu 23 – System Password:**

```
Menu 23 - System Password

Old Password= ?
New Password= ?
Retype to confirm= ?

Enter here to CONFIRM or ESC to CANCEL:
```

- **Menu 24.2.2: System Maintenance – Change Console Port Speed**

```
Menu 24.2.2 - System Maintenance - Change Console Port Speed

Console Port Speed: 9600

Press ENTER to Confirm or ESC to Cancel:
```

- **Menu 24.3: System Maintenance – UNIX Syslog**

```
Menu 24.3.2 - System Maintenance - UNIX Syslog

UNIX Syslog:
  Active= No
  Syslog IP Address= ?
  Log Facility= Local 1

Types:
  CDR= No
  Packet triggered= No
  Filter log= No
  PPP log= No

Press ENTER to Confirm or ESC to Cancel:
```

- Menu 24.10: System Maintenance – Time and Date Setting

```

Menu 24.10 - System Maintenance - Time and Date Setting

Use Time Server when Bootup= None
Time Server Address= N/A

Current Time:                00 : 05 : 09
New Time (hh:mm:ss):        00 : 05 : 08

Current Date:                2000 - 01 - 01
New Date (yyyy-mm-dd):      2000 - 01 - 01

Time Zone= GMT

Daylight Saving= No
Start Date (mm-dd):          01 - 00
End Date (mm-dd):            01 - 00

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 24.11: Remote Management -- Remote Management Control

```

Menu 24.11 - Remote Management Control

TELNET Server:
  Server Port = 23                Server Access = LAN only
  Secured Client IP = 0.0.0.0

FTP Server:
  Server Port = 21                Server Access = LAN only
  Secured Client23HI= 0.0.0.0

Web Server:
  Server Port = 80                Server Access = LAN only
  Secured Client IP = 0.0.0.0

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 25 - IP Routing Policy Setup

```

Menu 25 - IP Routing Policy Setup

Policy Set #      Name
-----
1      _____
2      _____
3      _____
4      _____
5      _____
6      _____

Policy Set #      Name
-----
7      _____
8      _____
9      _____
10     _____
11     _____
12     _____

Enter Policy Set Number to Configure= 0

Edit Name= N/A

Press ENTER to Confirm or ESC to Cancel:

```

- Menu 26 - Schedule Setup

Menu 26 - Schedule Setup

Schedule Set #	Name	Schedule Set #	Name
-----	-----	-----	-----
1	_____	7	_____
2	_____	8	_____
3	_____	9	_____
4	_____	10	_____
5	_____	11	_____
6	_____	12	_____

Enter Schedule Set Number to Configure= 0

Edit Name= N/A

Press ENTER to Confirm or ESC to Cancel:

- `ras> sys view autoexec.net`

```
ppp ipcp compress off
sys wdog sw on
sys errctl 0
sys trcl level 5
sys trcl type 1180
sys trcp cr 64 96
sys trcl sw off
sys trcp sw off
ip tcp mss 512
ip tcp limit 2
ip tcp irtt 65000
ip tcp window 2
ip tcp ceiling 6000
ip rip activate
ip rip merge on
ip icmp discovery enif0 off
bridge mode 1
sys quick enable
wan adsl rate off
```

