

Prestige P650H-13 3.40(FV.0)C0 Standard Version Release Note

Date: June 11, 2002

Supported Platforms:

TOSHIBA TMPR39280F

Versions:

ZyNOS Version: V3.40(FV.0) | 6/11/2002

Bootbase Version: V1.04 | 5/13/2002 18:55:09

Notes:

1. The P650H-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, P650H-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 P650H-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

- 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. The version of Alcatel modem code is 2.7.38

Modification:

Modification in 3.40(FV.0)b9 (June 3, 2002)

1. Add CI commands “ether spi set <page> <address> <length> <data>”, and “ether spi get <page> <address> <length>” for Broadcom chip BCM3525M but it’s for internal usage only

Modification in 3.40(FV.0)b8 (May 24, 2002)

1. CPU clock is changed back to 100Mhz

Modification in 3.40(FV.0)b7 (May 16, 2002)

1. Use a ROM controller to protect system from exception errors, but it is only enabled when EngDebugFlag is 0
2. Boot module is upgrade to version 1.04
3. CPU clock is down to 80Mhz, UART baud-rate and timer-based clock is modified

Modification in 3.40(FV.0)b6 (April 23, 2002)

1. In Web/GUI modify the security page to be individual selections for embedded servers
2. Add command “sys atwe <mac address> for writing MAC address

Modification in 3.40(FV.0)b3 (March 25, 2002)

1. modify CI command “ppp lcp echotime”, if the parameter could be “0” which means to stop sending lcp echo requests
2. merge Dying Gasp recovery from P650R-11. If Dying Gasp Interrupt is received more than 100 times (by default) system will reboot

Modification in 3.40(FV.0)b2 (Mar 8, 2002)

1. Add CI command “sys atsh”.
2. Modify the default rom file setting for menu 4 , VPI/VCI : 8/32, DHCP pool size is 32, Client start IP = 192.168.1.33, encapsulation method is RFC1483 / LLC
3. Telnet will default login to SMT menu.
4. Add sptgen.
5. Merge NAT fix for OH Phone from P643R.
6. Add PPPoA dial on demand.
7. Add PPP idle timeout in menu 11.
8. Add call filter in menu 11.5.
9. Add firmware upgrade and restore to default romfile page in web.
10. Add remote management in web.
11. Add dynamic DNS in web.

Bug fixes:

Fixes in 3.40(FV.0)b10(June 10, 2002)

1. SUA/NAT server set table is configured to 1-2000 port forwarding to LAN host, and if the first packet is ICMP ping system will get hang-up
2. In smt12, smt12.1, smt12.3, smt24.2, smt24.3, if users input a number first, and then left key, SMT will get hang-up
3. IGMP doesn't work
4. In ATM layer, the incoming stray packets will be treated as OAM packets, and causes exception error
5. CI commands "wan hwsar disp", "wan atm test oam" should open for end users

Fixes in 3.40(FV.0)b9 (June 3, 2002)

1. In Web GUI, LAN subnet mask is changed, but it doesn't work when LAN Host tries to get IP address from DHCP server
2. In SPTGEN, configure encapsulation to be PPP, but it doesn't work
2. after using "atur" to upload F/W, system should reboot directly, but sometimes system gets hang-up
3. When encapsulation is PPP connecting and then change to PPPoE, system will get exception error

Fixes in 3.40(FV.0)b8 (May 27, 2002)

1. "EnetEncap" doesn't work, while it's configured dynamic IP and ADSL is disconnect and connect again

Fixes in 3.40(FV.0)b7 (May 17, 2002)

1. Exception bug, ATUC is in bridge mode, ATUR smt11.1 bridge = Yes, and then switch smt 11.1 to routing mode, then system will get exception errors (bcproute.c)
2. One command will cause exception "sys iface disp wanif0 10"

Fixes in 3.40(FV.0)b6 (April 23, 2002)

1. Prevent from SNMP packets attacking
2. After FTP upload ROM-0, telnet into system will cause exception errors
3. In Web/GUI, configure PPPoE VC and then LLC again and again, system will cause exception errors
4. Enhance codes to prevent from exception errors (ppp_down(), adslcallhistory(), IfGetNumDialingChann(), var_ipAddrTran(), EmbeddedSvrCheck(), embeddedSvrCheckICMP(), udp_input(), EtherStatusPeriodicUpdate(), TosIpCreate(), Channeltmout(), LoadFrom_memMapTab(), DumpmemMapTab())

Fixes in 3.40(FV.0)b5 (March 29, 2002)

1. Remote management doesn't work when SMT menu 15.2.1 is configured a port 21 to LAN host
2. Time Server function doesn't get the update time after system reboot

Fixes in 3.40(FV.0)b4 (March 26, 2002)

1. OhPhone call H.323 bug fixed
2. In SPTGEN, allow menu 15.2.1 server port start and port end
3. In SPTGEN, system will get reboot "in timer.c" if the encapsulation is ENET_ENCAP

Fixes in 3.40(FV.0)b3 (March 25, 2002)

1. In SPTGEN, nailed-up connection always On after put rom-t file
2. In SPTGEN, dynamic IP assignment can't be configured
3. In SMT menu 12, static IP route can't input number 10-16

Known bugs:

1. Manufactory Data in Bootbase

2.

| | |
|------------------------|--|
| ZyNOS Version | : V3.40 (FV.0) 6/11/2002 10:07:09 |
| Bootbase Version | : V1.04 5/13/2002 18:55:09 |
| Vendor Name | : ZyXEL Communications Corp. |
| Product Model | : Prestige 650H |
| ZyNOS ROM address | : bfc20000 |
| System Type | : 6 |
| MAC Address | : 00A0C5FF0009 |
| Default Country Code | : FF |
| Boot Module Debug Flag | : 01 |
| RomFile Version | : 32 |
| RomFile Checksum | : 5038 |
| ZyNOS Checksum | : 85b0 |
| SNMP MIB level & OID | : 060102030405060708091011121314151617181920 |
| Main Feature Bits | : 86 |
| Other Feature Bits | : |
| | 90 00 00 00 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

| |
|--|
| <pre>Menu 1 - General Setup System Name= ? Location= Contact Person's Name= Route IP= Yes Bridge= No Press ENTER to Confirm or ESC to Cancel:</pre> |
|--|

- Menu 3 - Ethernet Setup

| |
|--|
| <pre>Menu 3 - Ethernet Setup 1. LAN Port Filter Setup 2. TCP/IP and DHCP Setup 5. Wireless LAN Setup1. LAN Port Filter Setup Enter Menu Selection Number:</pre> |
|--|

- Menu 3.1 - LAN Port Filter Setup

| |
|---|
| <pre>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:</pre> |
|---|

- **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 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 : 12 : 37
New Time (hh:mm:ss):         00 : 12 : 33

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 = ALL
  Secured Client IP = 0.0.0.0

FTP Server:
  Server Port = 21                Server Access = ALL
  Secured Client IP = 0.0.0.0

Web Server:
  Server Port = 80                Server Access = ALL
  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
-----
1      AlwaysOn
2      _____
3      _____
4      _____
5      _____
6      _____

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

Enter Schedule Set Number to Configure= 0

Edit Name= N/A

Press ENTER to Confirm or ESC to Cancel:n

```

- Menu 26.1 - Schedule Setup

Menu 26.1 Schedule Set Setup

Active= Yes
 Start Date(yyyy-mm-dd)= 2000 - 01 - 01
 How Often= Weekly
 Once:
 Date(yyyy-mm-dd)= N/A
 Weekdays:
 Sunday= Yes
 Monday= Yes
 Tuesday= Yes
 Wednesday= Yes
 Thursday= Yes
 Friday= Yes
 Saturday= Yes
 Start Time(hh:mm)= 00 : 00
 Duration(hh:mm)= 23 : 59
 Action= Forced On

Press ENTER to Confirm or ESC to Cancel:n

- ```

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
 sys quick enable
 wan adsl rate off

```