Prestige P650H-11 3.40(FR.1)C0 Standard Version Release Note

Date: August 1, 2002

Supported Platforms:

TOSHIBA TMPR39280F

Versions:

ZyNOS Version: V3.40(FR.1)C0 | 8/1/2002
Bootbase Version: V1.05 | 7/29/2002 11:53:18

Notes:

1. The P650H-11 (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-11 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-11 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 3.8.164

Modification/Bug fixes:

Modification in 3.40(FR.1)b2 (July 29, 2002)

1. [ENHANCEMNET] 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] HTP bug that 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(FR.1)b1 (July 23, 2002)

1. [ENHANCEMNET] The model name in main menu should differentiate P650H-11 or P650H-13, but it's related with boot module

2. [ENHANCEMNET] Merge IGMP proxy feature from P643. The router acts as IGMP proxy which sends the leave/join message in case it received, and won't send query message and also won't execute group timeout event

3. [ENHANCEMNET] The ADSL disconnecting should be done by defect bitmap checking that means the logs "L1 shutdown by nlos" will be logged when ADSL is disconnected

4. [BUG FIX] ATM Rx ISR should check bad packets like CRC or length error

5. [BUG FIX] In smt24.10 the default value of daylight saving should be 01-01 (mm-dd)

6. [BUG FIX] Reject a SYN-ACK packets which causes embedded server Telnet/FTP/HTTP failure

7. [BUG FIX] Plug and unplug will cause system ATM initial failure and exception error

8. [BUG FIX] System hang up if press enter key in SMT menu 3.2 quickly

Modification in 3.40(FR.0)b11 (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(FR.0)b10 (May27, 2002)

1.CPU clock is changed back to 100Mhz

Modification in 3.40(FR.0)b9 (May 10, 2002)

1.Replace three string API (strcpy, strlen, strcmp) from Green Hill Library

2. Use a ROM controller to protect system from exception errors, but it is only enabled when EngDebugFlag is 0

Modification in 3.40(FR.0)b8 (May 7, 2002)

1   Boot module is upgrade to version 1.04

1.   CPU clock is down to 80Mhz, UART baud-rate and timer-based clock is modified

Modification in 3.40(FR.0)b7 (April 30, 2002)

1.In Web/GUI modify the security page to be individual selections for embedded servers

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.

Fixes in 3.40(FR.0)b13(June 7, 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

Fixes in 3.40(FR.0)b12(June 5, 2002)

1. IGMP doesn't work

2. In ATM layer, the incoming stray packets will be treated as OAM packets, and causes exception error

3. "wan hwsar disp", "wan atm test oam" should open for end users

Fixes in 3.40(FR.0)b11(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

3.after using "atur" to upload F/W, system should reboot directly, but sometimes system gets hang-up

4.When encapsulation is PPP connecting and then change to PPPoE, system will get exception error

Fixes in 3.40(FR.0)b10 (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(FR.0)b9 (May 10, 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(FR.0)b7 (April 30, 2002)

1. Prevent from SNMP incorrect content 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(FR.0)b6 (April 2, 2002)

1. In Web GUI, in login page, sometimes user must input username/password many times

2. The version of Alcatel modem code is 3.8.164

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 menu15.2.1 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

```
ZyNOS Version          : V3.40(FR.1) | 8/1/2002 17:12:04

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

Vendor Name            : ZyXEL Communications Corp.

Product Model          : Prestige 650H-11

ZyNOS ROM address      : bfc20000

System Type            : 6

MAC Address            : 00A0C5012345

Default Country Code   : FF

Boot Module Debug Flag : 01

RomFile Version        : 35

RomFile Checksum       : 7707

ZyNOS Checksum         : bd43

SNMP MIB level & OID   : 060102030405060708091011121314151617181920

Main Feature Bits      : 86

Other Feature Bits     :

        8F 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
```

Default ROM File Value Setting

- Menu 1: General Setup

```
                  Menu 1 - General Setup

        System Name= ?
        Location=
        Contact Person's Name=


        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 Setup1. LAN Port Filter 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 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                          Filter
      Set #        Comments           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 - 01
        End Date (mm-dd):                         01 - 01


                  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                           Policy
      Set #          Name              Set #          Name
      ------   -----------------       ------   -----------------
        1      _____           7      _____
        2      _____           8      _____
        3      _____           9      _____
        4      _____          10      _____
        5      _____          11      _____
        6      _____          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                         Schedule
      Set #          Name              Set #          Name
      ------   -----------------       ------   -----------------
        1      AlwaysOn                  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: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
  ```