

# ZyXEL Prestige 782R 2.50(BH.4)

## Release Note

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**Date:** Aug 6, 2002

### Supported Platforms:

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ZyXEL Prestige firmware V2.50(BH.4) supports for P782R.

### Versions:

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ZyNOS Version: V2.50(BH.4) | 8/6/2002

Bootbase Version: V2.07 | 3/15/2002 14:29:16

### Notes:

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1. The Prestige 782R is a G.SHDSL Router /Bridge providing high-speed LAN-to-LAN connection and Internet access for small business or branch office through G.SHDSL connection over the copper line.
  - Support G.991.2.
  - One auto-sensing 10/100M Ethernet interface
  - support Multi-protocol over AAL5 (RFC1483)
  - Support PPP over ATM AAL5 (RFC 2364)
  - Support up to 12 PVCs
  - IP routing and bridging modes
  - NAT/SUA for single-IP-address Internet Access
  - DHCP Client, Server and Relay
  - RIP I/ RIP II supported.
  - ICMP Router Discovery
  - TFTP/FTP server for firmware upgrade
  - F4/F5 OAM
  - Symmetric transmission up to 2.3Mbps
  - IP Alias
  - IP Policy Routing
  - Web-based Configuration

### Modification:

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#### **Modification in 2.50(BH.4)b2 (2002/7/25)**

1. Support VLAN bridging.

#### **Modification in 2.50(BH.4)b1 (2002/5/23)**

1. Enhance model checking mechanism.
2. SNMP attack protection.
3. Add Ras code protection as trunk 3.40 codes, if product model (or Vendor ID, H/W version) is not correct, system won't allow RAS code to be erased. Vendor ID now is ZYXEL, H/W version is feature bits 4<sup>th</sup> byte, now is zero. This protection is on ATUR in debug mode and also FTP, TFTP.
4. Extend to 70 char in the PPP/PPPoE username field.

#### **Modification in 2.50(BH.3)b5**

1. Follow the ITU G.991.2, so P782R only support 72K, 136K, 200K, 264K, 392K, 520K, 776K, 1032K,

- 1160K, 1544K, 1736K, 2056K and 2312K rates in menu 2.
2. Change the web configurator to support new feature “firmware upload”.
3. Change the bootbase version 2.06 to support MXIC flash.

**Modification in 2.50(BH.3)b4**

1. Add two commands for CHT. (“Set account” and “Show account”)
2. Support the rates 72K, 136K, 2368K on menu 2.
3. Support the Globespan DSP version R1.5.
4. Modify some EOC functions.

**Modification in 2.50(BH.3)b3**

1. Support the GlobeSpan DSP version R1.7.
2. Support PPPoE and modify SMT menu 4, 11.1 and 11.3.
3. Default VPI/VCI= 8/35.
4. Send the SNMP packets for link up and down.

**Modification in 2.50(BH.3)b2**

1. Modify the text on menu 24.5 and 24.6.
2. Enable watchdog function.
3. Modify autoexec.net for watchdog.

**Modification in 2.50(BH.3)b1**

1. Add the rates 264K, 520K, 1032K and 2056K on menu 2.

**Modification in 2.50(BH.2)b2**

1. Support the GlobeSpan DSP version R1.5.

**Modification in 2.50(BH.2)b1**

1. Support the GlobeSpan DSP version R1.4.
2. Change the SMT menu 2 title.(“Wan” into “WAN”)
3. Change the SMT menu 24.2.1.(“S/W” into “F/W”)

**Modification in 2.50(BH.1)b4**

1. Support the GlobeSpan DSP version R1.2.

**Modification in 2.50(BH.1)b3**

1. Support the GlobeSpan DSP version R1.1

**Modification in 2.50(BH.1)b1**

1. Support the GlobeSpan DSP version R1.0
2. Support web configurator.
3. Support Intel C3 flash(TE28F800).

## Bug fixes:

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**Bugs fixes in 2.50(BH.4)b2 (2002/7/25)**

1. When the system received the TCP packet with SYN&ACK or SYN&FIN flags to port 21, the telnet will be hang-up.

**Bugs fixes in 2.50(BH.4)b1 (2002/5/23)**

1. System may cause hang-up if SNMP query to an non-existed interface.
2. Bridge routing table will not update autotmatically.
3. When the dsl line disconnected, the system will hang up.

**Bugs fixes in 2.50(BH.3)b4**

1. Fix the wan address bug in menu 11.3.
2. Fix the bridge bug.
3. fix the pppoe bug.

**Bugs fixes in 2.50(BH.3)b3**

1. Fix the IP netmask bug on menu 3.2.1.
2. Fix the SNMP bug about the rate.
3. Fix the upstream bug about PCR.

**Bugs fixes in 2.50(BH.2)b1**

1. Fix the internet security bugs in the web configurator.
2. Change the maximum IP pool size to 254 on menu 3.2.
3. Fix the misjudgment of COLD / WARM start issue.
4. Remove the debug message “input line sys” in the SMT initial screen.

**Bugs fixes in 2.50(BH.1)b4**

1. Fix the HTP bug..
2. Change default setting to “Annex B” on menu 2.

## 1. Manufactory Data in Bootbase

|                        |  |
|------------------------|--|
| ZyNOS Version          | : V2.50(BH.4)   8/6/2002 10:56:21                  |
| Bootbase Version       | : V2.07   3/15/2002 14:29:16                       |
| Vendor Name            | : ZyXEL Communications Corp.                       |
| Product Model          | : Prestige 782R                                    |
| ZyNOS ROM address      | : 06008000   |
| System Type            | : 5  |
| MAC Address            | : 00A0C5xxxxxx                                     |
| Default Country Code   | : FF   |
| Boot Module Debug Flag | : 00   |
| RomFile Version        | : xx   |
| RomFile Checksum       | : 0c4a   |
| ZyNOS Checksum         | : 8f2d   |
| SNMP MIB level & OID   | : 060102030405060708091011121314151617181920       |
| Main Feature Bits      | : 86   |
| Other Feature Bits     | :  |
|                        | 2D 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 00 13 00 00 00       |

## 2. Default ROM File Value Setting

- **Menu 1: General Setup**

```
Menu 1 - General Setup

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

Route IP= Yes
Route IPX= No
Bridge= No

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

- **Menu 2: WAN Setup**

```
Menu 2 - WAN Setup

Service Type= Client
Rate Adaption= Enable
Transfer Max Rate(Kbps)=2312K
TransFer Min Rate(Kbps)=136K
Standard Mode= ETSI(ANNEX_B)

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

- **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 3.2.1 - IP Alias Setup**

```
Menu 3.2.1 - IP Alias Setup

IP Alias 1= No
  IP Address= N/A
  IP Subnet Mask= N/A
  RIP Direction= N/A
  Version= N/A
  Incoming protocol filters= N/A
  Outgoing protocol filters= N/A
IP Alias 2= No
  IP Address= N/A
  IP Subnet Mask= N/A
  RIP Direction= N/A
  Version= N/A
  Incoming protocol filters= N/A
  Outgoing protocol filters= N/A

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

- **Menu 3.3 - Novell IPX Ethernet Setup**

```
Menu 3.3 - Novell IPX Ethernet Setup

Seed Router= No

Frame Type 802.2= Yes
  IPX Network #= N/A

Frame Type 802.3= No
  IPX Network #= N/A

Frame Type Ethernet II= No
  IPX Network #= N/A

Frame Type SNAP= No
  IPX Network #= N/A

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

- **Menu 3.4 - Bridge Ethernet Setup**

```
Menu 3.4 - Bridge Ethernet Setup

Handle IPX= None

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

- **Menu 4 Internet Access Setup**

```

Menu 4 - Internet Access Setup

ISP's Name= ChangeMe
Encapsulation= RFC 1483
Multiplexing= LLC-based
VPI #= 8
VCI #= 35
Peak Cell Rate (cell/sec)= 20000
Sustain Cell Rate (cell/sec)= 0
Maximum Burst Size (cell)= 0
Service Name= N/A
My Login= N/A
My Password= N/A
Single User Account= No
IP Address Assignment= N/A
    IP Address= N/A
ENET ENCAP Gateway= N/A

Press ENTER to Confirm or ESC to Cancel:

```

- **Menu 11 Remote Node Setup**

```

Menu 11 - Remote Node Setup

1. ChangeMe (ISP)
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

Enter Node # to Edit:

```

- **Menu 11.1 Remote Node Profile**

```

Menu 11.1 - Remote Node Profile

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

Encapsulation= RFC 1483          Edit PPP Options= N/A
Multiplexing= LLC-based          Rem IP Addr= 0.0.0.0
Incoming:                       Edit IP/IPX/Bridge= No
    Rem Login= N/A               Edit ATM Options= No
    Rem Password= N/A
Outgoing:                       Session Options:
    My Login= N/A                Edit Filter Sets= No
    My Password= N/A            PPPoE Idle Timeout(sec)= N/A
    Authen= N/A                 PPPoE Service Name= 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:

Rem IP Addr= 0.0.0.0  
Rem Subnet Mask= 0.0.0.0  
My WAN Addr= 0.0.0.0  
Single User Account= No  
Metric= 2  
Private= No  
RIP Direction= None  
Version= RIP-1  
Multicast= None  
IP Policies=

IPX Options:

Rem LAN Net #= N/A  
My WAN Net #= N/A  
Hop Count= N/A  
Tick Count= N/A  
W/D Spoofing(min)= N/A  
SAP/RIP Timeout(min)= N/A  
Dial-On-Query= N/A  
  
Bridge Options:  
Ethernet Addr Timeout(min)= N/A  
Dial-On-Broadcast= N/A

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=3  
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

Peak Cell Rate (cell/sec)= 20000

Sustain Cell Rate (cell/sec)= 0

Maximum Burst Size (cell)= 0

Enter here to CONFIRM or ESC to CANCEL:

- Menu 12.1 IP Static Route Setup

Menu 12.1 - IP Static Route Setup

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

Enter selection number:

- Menu 12.1.1 Edit IP Static Route

Menu 12.1.1 - Edit IP Static Route

```
Route #: 1
Route Name= ?
Active= No
Destination IP Address= ?
IP Subnet Mask= ?
Gateway IP Address= ?
Metric= 2
Private= No
```

Press ENTER to Confirm or ESC to Cancel:

- **Menu 12.2 IPX Static Route Setup**

Menu 12.2 - IPX Static Route Setup

```
1. _____
2. _____
3. _____
4. _____
```

Enter selection number:

- **Menu 12.2.1 Edit IPX Static Route**

Menu 12.2.1 - Edit IPX Static Route

```
Route #= 1
Server Name= ?
Active= Yes
Network #= ?
Node #= 0000000000001
Socket #= 0451
Type #= 0004
Hop Count= 2
Tick Count= 3
Gateway Node= 1
```

Press ENTER to Confirm or ESC to Cancel:

- **Menu 12.3 Bridge Static Route Setup**

Menu 12.3 - Bridge Static Route Setup

```
1. _____
2. _____
3. _____
4. _____
```

Enter selection number:

- **Menu 12.3.1 - Edit Bridge Static Route**

Menu 12.3.1 - Edit Bridge Static Route



Route #: 1  
Route Name= ?  
Active= No  
Ether Address= ?  
IP Address=  
Gateway Node= 1

Press ENTER to Confirm or ESC to Cancel:

- Menu 15 - SUA Server Setup

Menu 15 - SUA Server Setup

| Port #    | IP Address |
|-----------|------------|
| -----     | -----      |
| 1.Default | 0.0.0.0    |
| 2. 0      | 0.0.0.0    |
| 3. 0      | 0.0.0.0    |
| 4. 0      | 0.0.0.0    |
| 5. 0      | 0.0.0.0    |
| 6. 0      | 0.0.0.0    |
| 7. 0      | 0.0.0.0    |
| 8. 0      | 0.0.0.0    |
| 9. 0      | 0.0.0.0    |
| 10. 0     | 0.0.0.0    |
| 11. 0     | 0.0.0.0    |
| 12. 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            | NetBIOS_WAN     | 7            |          |
| 2            | NetBIOS_LAN     | 8            |          |
| 3            | TEL_FTP_WEB_WAN | 9            |          |
| 4            |                 | 10           |          |
| 5            |                 | 11           |          |
| 6            |                 | 12           |          |

Enter Filter Set Number to Configure= 0

Edit Comments= N/A

Press ENTER to Confirm or ESC to Cancel:

- Menu 21.1 Filter Rules Summary ( for NetBIOS\_WAN )

Menu 21.1 - 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 |

Enter Filter Rule Number (1-6) to Configure:

- 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 24.3.2: 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= N/A
  Filter log= No
  PPP log= No

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:

- ras> sys view autoexec.net  
 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  
 ppp ipcp compress off  
 sys wdog switch on  
 sys quickbrg enable  
 sys bidirection on