# ZyXEL

**Firmware Release Note**

# Prestige P650M-61
## ADSL over POTs Modem

**Release 3.40(SL.0)**

**Date:**              **August 19, 2004**
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# ZyXEL Prestige 650M-61
# Release 3.40(SL.0)
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## Supported Platforms:

ZyXEL Prestige 650M-61

## Versions:

ZyNOS F/W Version: V3.40(SL.0) | 8/19/2004 14 :05 :56
BootBase : V1.00| 6/7/2004 17:55:49

## Notes:

The Prestige 650M-61 is a high performance **ADSL/ADSL2** modem which is designed for residential user to have Internet access and LAN-to-LAN application over the existing copper line. P650M-61 takes advantage of much higher data rate than ADSL, speed up to 12Mbps (ADSL2), greater reach, faster start-up, and better power management.
P650M-61 provides one auto-detection 10/100BASE-T Ethernet port for connection to the user's local network, and a single RJ-11/RJ-45 port for connection to ADSL/ADSL2 line.


The version of TI modem code is 1.1.0.0.


## 1. Known Issues:
1. Can't reach line rate with small packets 64/128 bytes if 2 PVCs are connected simultaneously.
2. Need to reboot system to activate remote node if user modifies the remote node settings.


## 2. Features:
**Modification in 3.40(SL.0)b1 | 7/2/2004**
1. Create this project.


**Modification in 3.40(SL.0)b2 | 7/9/2004**

1. [FEATURE ENHANCED]
Symptom: Support firmware upgrade utility.

2. [BUG FIXED]
Symptom: Add protection to prevent system crash when connected to company network.

3. [BUG FIXED]
Symptom: Create enough buffers to support 2 PVC connections.

**Modification in 3.40(SL.0)b3 | 7/26/2004**
1. [BUG FIXED]
Symptom: The restored default romfile settings by pressing reset button or issuing CI command "sys romreset" are not consistent with default romfile.

**Modification in 3.40(SL.0)b4 | 8/10/2004**
1. [BUG FIXED]
Symptom: Can't setup 2$^{nd}$ remote node if the VPI is conflict with the 1$^{st}$ remote node.

2. [BUG FIXED]
Symptom: The downstream traffic of frame sizes 522/282 bytes may stop while performing bi-directional test.

3. [BUG FIXED]
Symptom: Poor throughput of small packets (64/128).

4. [BUG FIXED]
Symptom: The encapsulation selection of "wan node encap" should be "1483" only.

5. [FEATURE ENHANCED]
Symptom: Add commands "sys wdog sw on", "sys quick enable", "sys quick enable", "wan adsl rate off" and "wan adsl errorsecond shutdown 30" in autoexec.net.

**Modification in 3.40(SL.0)b5 | 8/17/2004**
1. [BUG FIXED]
Symptom: The downstream traffic of frame sizes 282/522 bytes will stop if connect 2 PVCs.

## CI Command List

| Command Class List Table | | |
|---|---|---|
| System Related Command | Exit Command | Ethernet Related Command |
| WAN Related Command | IP Related Command | Bridge Related Command |

| LAN Related Command | | |
|---|---|---|

System Related Command

| Command | | | | Description |
|---|---|---|---|---|
| sys | | | | |
| | countrycode | | [countrycode] | set country code |
| | dir | | | display file directory |
| | date | | [year month date] | set/display date |
| | edit | | <filename> | edit a text file |
| | feature | | | display feature bit |
| | hostname | | [hostname] | display system hostname |
| | stdio | | [second] | change terminal timeout value |
| | time | | [hour [min [sec]]] | display/set system time |
| | version | | | display RAS code and driver version |
| | view | | <filename> | view a text file |
| | wdog | | | |
| | | switch | [on\|off] | set on/off wdog |
| | | cnt | [value] | display watchdog counts value: 0-34463 |
| | | dead | | let watch dog take place using while loop |
| | romreset | | | restore default romfile |
| | password | | | change system password |
| | datetime | | | |
| | | period | | day period to synchronize with time server |
| | socket | | | display system socket information |
| | atsh | | | display manufactory data |
| | cpu | | | |
| | | display | | display CPU utilization |

Exit Command

| Command | | | Description |
|---|---|---|---|
| exit | | | exit smt menu |

Ethernet Related Command

| Command | | | | Description |
|---|---|---|---|---|
| ether | | | | |
| | config | | | display LAN configuration information |
| | driver | | | |
| | | cnt | | |
| | | | disp <name> | display ether driver counters |
| | | | clear <name> | clear ether driver counters |
| | | status | <ch_name> | see LAN status |
| | | config | [0\|1=auto\|normal] [0\|1=10\|100] | configure mac phy mode |

| | | | [0|1=HD|FD] <ch-name> | |
|---|---|---|---|---|
| | version | | | see ethernet device type |

WAN Related Command

Home

| Command | | | | Description |
|---|---|---|---|---|
| wan | adsl | | | |
| | | chandata | | ADSL channel data, line rate |
| | | close | | close ADSL line |
| | | linedata | | |
| | | | near | show ADSL near end noise margin |
| | | | far | show ADSL far end noise margin |
| | | **open** | | open ADSL line |
| | | opencmd | | open ADSL line with specific standard |
| | | | glite | |
| | | | t1.413 | |
| | | | gdmt | |
| | | | multimode | |
| | | opmode | | show the operational mode |
| | | rateadap | [on|off] | turn on/off rate adaptive mechanism |
| | | perfdata | | show performance information,CRC,FEC, error seconds.. |
| | | reset | | reset ADSL modem, and must reload the modem code again |
| | | status | | ADSL status (ex: up, down or wait for init) |
| | | targetnoise | [value] | adjust target noise offset |
| | | modem_code | | display modem code version. |
| | hwsar | disp | | display hwsar packets incoming/outgoing information |
| | | clear | | clear hwsar packets information |
| | node | index | [1~2] | select remote node index |
| | | clear | | clear the parameters of the temporary WAN profile |
| | | save | | save the related parameters of WAN node |
| | | display | | display WAN profile configuration in buffer |
| | | ispname | [ISP name] | set remote node name. |
| | | enable | | enable the remote node |
| | | disable | | disable the remote node |
| | | encap | [1483|pppoa|pppoe|enet] | set the encapsulation of remote node. |
| | | mux | [vc|llc] | set the remote node multiplex |
| | | vpi | [num] | set the remote node vpi. Range : 0~255 |
| | | vci | [num] | set the remote node vci. Range : 32~65535 |
| | | qos | [ubr|cbr|vbr] | set the remote node QOS type to be UBR, CBR or VBR |
| | | pcr | [num] | set the remote node PCR value |
| | | scr | [num] | set the remote node SCR value |

| | | mbs | [num] | set the remote node MBS value |
| | | bridge | [on\|off] | set the remote node bridge mode |
| | | routeip | [on\|off] | set the remote node IP routing mode |
| | | | | |

IP Related Command

Home

| Command | | | | Description |
|---|---|---|---|---|
| ip | | | | |
| | address | | [addr] | display host ip address |
| | arp | | | |
| | | status | <iface> | display ip arp status |
| | | add | <hostid> ether <ether addr> | add arp information |
| | | resolve | <hostid> | resolve ip-addr |
| | | drop | <hostid> [hardware] | drop arp |
| | | flush | | flush arp table |
| | | publish | | add proxy arp |
| | ifconfig | | [iface] [ipaddr] [broadcast <addr> \|mtu <value>\|dynamic] | configure network interface |
| | ifdrop | | <iface> | chaek if iface is available. |
| | ping | | <hostid> | ping remote host |
| | route | | | |
| | | status | [if] | display routing table |
| | | add | <dest_addr\|default>[/<bits>] <gateway> [<metric>] | add route |
| | | addiface | <dest_addr\|default>[/<bits>] <gateway> [<metric>] | add an entry to the routing table to iface |
| | | addprivate | <dest_addr\|default>[/<bits>] <gateway> [<metric>] | add private route |
| | | drop | <host addr> [/<bits>] | drop a route |
| | | flush | | flush route table |
| | | lookup | <addr> | find a route to the destination |
| | | errcnt | | |
| | | | disp | display routing statistic counters |
| | | | clear | clear routing statistic counters |
| | status | | | display ip statistic counters |
| | tcp | | | |
| | | ceiling | [value] | TCP maximum round trip time |
| | | floor | [value] | TCP minimum rtt |
| | | irtt | [value] | TCP default init rtt |
| | | kick | <tcb> | kick tcb |
| | | limit | [value] | set tcp output window limit |
| | | mss | [value] | TCP input MSS |
| | | reset | <tcb> | reset tcb |
| | | rtt | <tcb> <value> | set round trip time for tcb |
| | | status | [tcb] [<interval>] | display TCP statistic counters |

| | | | | |
|---|---|---|---|---|
| | | syndata | [on\|off] | TCP syndata piggyback |
| | | trace | [on\|off] | turn on/off trace for debugging |
| | | window | [tcb] | TCP input window size |

Bridge Related Command

Home

| Command | | | | Description |
|---|---|---|---|---|
| bridge | | | | |
| | | disp | [id] | display brt data |
| | | reset | [id] | reset brt data |
| | cnt | | | related to bridge routing statistic table |
| | | disp | | display bridge route counter |
| | | clear | | clear bridge route counter |
| | stat | | | related to bridge packet statistic table |
| | | disp | | display bridge route packet counter |
| | | clear | | clear bridge route packet counter |

LAN Related Command

Home

| Command | | | | Description |
|---|---|---|---|---|
| lan | | | | |
| | index | | <1:main LAN> | Select main LAN Interface |
| | ipaddr | | <address> <subnet mask> | Set lan ip address. |
| | display | | | Display LAN parameters |
| | clear | | | Clear the Working Buffer |
| | save | | | Save LAN related parameters |