ZyXEL

Firmware Release Note

Prestige 650M-61
ADSL over POTs Modem

Release 3.40(SL.3)

Date:	**October 12, 2004**
Author:	**David Su**

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Supported Platforms:

ZyXEL Prestige 650M-61

Versions:

ZyNOS F/W Version: V3.40(SL.3) | 10/12/2004 10:56:57
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.   Issue command "wan adsl reset", system will reboot.
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 2nd remote node if the VPI is conflict with the 1st 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.

Modification in 3.40(SL.1)b1 | 9/21/2004
1. [BUG FIXED]
Symptom: System may hang up in chamber test.

2. [BUG FIXED]
Symptom: Remove "wan adsl errorsecond shutdown 30" in autoexec.net, since it doesn't work.

Modification in 3.40(SL.3)b1 | 10/8/2004
1.   [BUG FIXED]
Symptom: System reboot at telnet session.

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
Home

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
Home

Command				Description
exit				exit smt menu

Ethernet Related Command
Home

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] [0|1=HD|FD] <ch-name>	configure mac phy mode
	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				
	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