



Firmware Release Note

Prestige 650R-33

Standard version

Release 3.40(IO.2)C0

Date:
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ZyXEL Prestige 650R-33 Standard Version release 3.40(IO.2)C0 Release Note

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Supported Platforms:

ZyXEL Prestige 650R-33

Versions:

ZyNOS Version : V3.40(IO.2) | 12/23/2003 11:25:59
Bootbase Version : V1.11 | 3/4/2003 10:26:13

Notes:

Known Issues:

1. The video will distortion under line rate is 416/3488 and multicast rate is 3Mbps.(Because the line rate is too low.)

Features:

Modifications in V 3.40(IO.2)C0 | 12/23/2003

1. Change to FCS

Modifications in V 3.40(IO.2)b1 | 11/25/2003

2. [BUG FIXED]

Symptom: In CI-command using “ether test 0 5”, the system will get exception.

Condition: When device not support wireless LAN or remove wireless LAN card, it should not test the wireless channel.

3. [BUG FIXED]

Symptom: VPN Can't Pass Through Router with NAT Traversal Turns On.

Condition: Setup a VPN connection with NAT Traversal turns on and establish a connection. It will be failed.

4. [BUG FIXED]

Symptom: There are distortion issue when both TV program and ftp transfer are executed.

Condition: When play TV program from wan side to lan side, and doing ftp from one ethernet station to one wireless station. There are distortion issue on TV screen.

Modifications in V 3.40(IO.1) | 09/18/2003

1. Change FCS version

Modifications in V 3.40(IO.1)b2 | 09/08/2003

1. [FEATURE ENHANCED]

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- Symptom: Merge VC auto hunting feature
2. [FEATURE ENHANCED]
Symptom: Add CI command "ip adjmss [<mss>]" to adjust TCP mss value
 3. [BUG FIXED]
Symptom: The system will reboot in 10M half-duplex mode under big traffic

Modifications in V 3.40(IO.1)b1 | 06/24/2003

4. [NEW FEATURE]
Symptom: Support Goalie CNM (Centralized Network Management) feature.
CI command "cnm active 1" could be used to active this feature. The default is inactive.
CI command "cnm managerIp xxx.xxx.xxx.xxx" is used to specify the IP address of the ZyXEL's CNM management station. For details for CNM, please reference to the User Guide for CNM.
5. [FEATURE ENHANCED]
Symptom: Add WAN feature (in Advance Panel) and improve wizard configuration in web-pages.
6. [FEATURE ENHANCED]
Symptom: Add Time Zone web-page in Advanced Setup panel.
7. [FEATURE ENHANCED]
Symptom: Enhance SPTGEN feature
Condition:
 - 1) Add RIP direction and version for SMT menu4.
 - 2) Add active and protocol option for SMT menu15 (NAT).
 - 3) Extend filter set to 2 sets.
 - 4) Support ADSL opencmd function.
8. [FEATURE CHANGED] Use AT command "atld" without enabled debug flag
9. [BUG FIXED]
Symptom: Protected "rom-0" file, when user no login.
Condition: Protected "rom-0" file, when user no login.
10. [BUG FIXED]
Symptom: If the traffic for Polycom camera pass our router, the router would be reboot.
11. [BUG FIXED]
Symptom: Can't play XBox Live via NAT router.

Modifications in V 3.40(IO.0)C0 | 12/9/2002

1. [BUG FIXED]
Symptom: LAN external loopback failed in HTP.
Condition: LAN external loopback failed in HTP.
2. [BUG FIXED]
Symptom: When users save the setting in web security page, the system will reboot.
Condition: When users save the setting in web security page, the system will reboot.

Modifications in V 3.40(IO.0)b3 | 11/27/2002

1. [BUG FIXED]
Symptom: Cell lost at the upstream.
Condition: Cell lost at the upstream.

2. [BUG FIXED]
Symptom: Bridge mode can't work.
Condition: Bridge mode can't work.

Modifications in V 3.40(IO.0)b2 | 11/13/2002

1. [FEATURE ENHANCED] Add UPNP Feature.
2. [FEATURE ENHANCED] Add Traffic Redirection Feature (detected by ADSL Line)
3. [BUG FIXED]
Symptom: The command "atba5" does not work in debug mode.
Condition: The command "atba5" does not work in debug mode.
4. [BUG FIXED]
Symptom: When we change the console baud rate, the system will display garbage.
Condition: Change the console baud rate in the debug mode.
3. [BUG FIXED]
Symptom: We cannot configure DDNS in SMT.
Condition: We cannot find any field to configure DDNS in SMT.
4. [FEATURE ENHANCED] Add the Core Checksum function.
5. [FEATURE ENHANCED] Add the PPPoA idle timeout function.
6. [BUG FIXED]
Symptom: The web page displays the incorrect modem code version.
Condition: The web page displays the incorrect modem code version.
7. [BUG FIXED]
Symptom: ATM loopback test fail in web configuration.
Condition: ATM loopback test fail in web configuration.
8. [FEATURE CHANGED] Modify the default rom file for standard version.
9. [BUG FIXED]
Symptom: 8 VCs bridge mode does not work.
Condition: When we send the 1518 bytes packets from AX4000 in 8 VCs bridge mode, the system can't transmit and receive any packets.
10. [BUG FIXED]
Symptom: When dhcp pool is only one ip, we can not login the web user interface.
Condition: When dhcp pool is only one ip, we can not login the web user interface.
11. [BUG FIXED]
Symptom: The PPP default setting will have null char in username and password.
Condition: The PPP default setting will have null char in username and password.
12. [BUG FIXED]
Symptom: The firmware upgrade function does not work in web.
Condition: When wan is idle, the firmware upgrade function does not work in web.
13. [FEATURE ENHANCED] Support the help function in web pages.
14. [BUG FIXED]
Symptom: Ping and TFTP functions sometimes do not work.
Condition: Ping and TFTP functions sometimes do not work.
15. [BUG FIXED]
Symptom: We can not save CBR/VBR setting in the web configuration.
Condition: We can not save CBR/VBR setting in the web configuration.

Modifications in V 3.40(IO.0)b1 | 10/18/2002

1. Create this project.

Annex A CI Command List

Command Class List Table		
System Related Command	Exit Command	Ethernet Related Command
WAN Related Command	IP Related Command	Bridge Related Command
CNM Related Command		

System Related Command

[Home](#)

Command			Description
sys			
	adjtime		retrive date and time from Internet
	atsh		display MRD field
	callhist		
		display	display call history
		remove	<index> remove entry from call history
	countrycode	[countrycode]	set country code
	date	[year month date]	set/display date
	domainname		display domain name
	edit	<filename>	edit a text file
	extraphnum		maintain extra phone numbers for outcalls
		add	<set 1-3> <1st phone num> [2nd phone num] add extra phone numbers
		display	display extra phone numbers
		node	<num> set all extend phone number to remote node <num>
		remove	<set 1-3> remove extra phone numbers
		reset	reset flag and mask
	feature		display feature bit
	hostname	[hostname]	display system hostname
	log		
		clear	clear log error
		disp	display log error
		online	[on off] turn on/off error log online display
	stdio	[second]	change terminal timeout value
	time	[hour [min [sec]]]	display/set system time
	trcdisp	parse, brief, disp	monitor packets
	syslog		
		server	[destIP] set syslog server IP address
		facility	<FacilityNo> set syslog facility
		type	[type] set/display syslog type flag
		mode	[on off] set syslog mode
	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
	romreset		restore default romfile
	socket		display system socket information

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	ddns			
		debug	<level>	enable/disable ddns service
		display	<iface name>	display ddns information
		restart	<iface name>	restart ddns
		logout	<iface name>	logout ddns
	cpu			
		display		display CPU utilization
	xmodemmode	[crc checksum]		select xmodem mode

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
		Status <ch name>	see LAN status
	config	[0 1=auto normal] [0 1=10 100] [0 1=HD FD] <ch-name>	Configure LAN Settings Auto/Normal, 100/10 Mbps, Half/Full Duplex
	version		see ethernet device type

WAN Related Command

[Home](#)

Command			Description
Wan	adsl	Bert	ADSL ber
		Chandata	ADSL channel data, line rate
		close	Close ADSL line
		Coding	ADSL standard current
		Ctrlint	ADSL CTRL E response command
		Defbitmap	ADSL defect bitmap status
		Dyinggasp	Send ADSL dyinggasp
		Fwav	Test the ADSL F/W available ping
		Fwdl	Download modem code, but must reset first
		Linedata	
		Linedata near	Show ADSL near end noise margin
		Linedata far	Show ADSL far end noise margin
		Open	Open ADSL line
		opencmd	Open ADSL line with specific standard
		Perfdata	Show performance information,CRC,FEC, error seconds..
		Rdata [start] [length]	Read DSP CTRL E registers 512 bytes
		Reset	Reset ADSL modem, and must reload the modem code again
		Selftest	
		Selftest Long	ADSL long loop test
		Selftest short	ADSL short loop test
		Status	ADSL status (ex: up, down or wait for init)
		Version	ADSL version information
		Vendorid	ADSL vendor information
		Utopia	Show ADSL utopia information

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		Cellcnt		Show ADSL cell counter
		display		
		display	shutdown	Show the counter of rate adaptive mechanism happening
		display	rateup	Show real status that rate adaptive mechanism happened
		Rateadap	[on/off]	Turn on/off rate adaptive mechanism
		Dumpcondition	[on/off]	Turn on/off online debug information of rate adaptive mechanism
		Sampletime	[mins]	Tune the sample time of rate adaptive mechanism
		Noisegt	[dB]	if noise margin is 3db greater than before, and rate is worse than before, then system will do "L1 shutdown RA3", default is 3db
		Noisemargin	[dB]	if noise margin is greater than this value, and rate is worse than before, then system will do "L1 shutdown RA3", default is 8db
		persisttime	[time]	when the adaptive condition is matched system will continue to monitor the time period "persisttime" before doing "L1 shutdown RA3", default is 30 seconds
		Timeinterval	[mins]	when "L1 shutdown RA3" is done twice, and still can't reach the max rate which system recorded, it will delay a time period that the period base time is "timeinterval" before starting again. The time-based default is 2 hrs
		Defectcheck	[on/off]	Turn on/off detect table checking, default is on
		Txgain	[value]	Set the CTRL register (0xc3), the value is from 0xfa to 0x06
		Targetnoise	[value]	Set the CTRL register (0xc4), the value is from 0xfa to 0x06
		Maxtonelimit	[value]	Set the CTRL register (0xc5), the value is from 0xfa to 0x06
		Rxgain	[value]	Set the CTRL register (0xc6), the value is from 0xfa to 0x06
		Txoutputpwr	[value]	Set the CTRL register (0xc7), the value is from 0xfa to 0x06
		Rxoutputpwr	[value]	Set the CTRL register (0xc8), the value is from 0xfa to 0x06
		maxoutputpwr	[value]	Set the CTRL register (0xc9), the value is from 0xfa to 0x06
		Errorsecond		
		Errorsecond	Switch [1 0]	Turn on/off error sending to DSLAM side
		Errorsecond	sendes	Send current error second information immediately
		Dygasprecover		
		Dygasprecover	Level [value]	By default is 100, after receiving 100 dying gasp system will reboot
		Dygasprecover	Active [on/off]	Turn on/off this mechanism
		rsploss	[1 0]	Turn on means to response signal loss of CTRL immediately, default is off
		watchdog	[1 0]	Watchdog for DSP
	atm	test	[fix rand period oam loopback]	Generate ATM traffic
wan	hwsar	Disp		Display hwsar packets incoming/outgoing information
		Clear		Clear hwsar packets information

		Sendoam		Send OAM packets: <vpi> <vci> <f5> <end-to-end> <type:0(AIS) 1(RDI) 2(LoopBack)>
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IP Related Command

[Home](#)

Command			Description
ip			
	address	[addr]	display host ip address
	alias	<iface>	alias iface
	aliasdis	<0 1>	disable alias
	arp		
	status	<iface>	display ip arp status
	dhcp	<iface>	
	client		
		release	release DHCP client IP
		renew	renew DHCP client IP
	status	[option]	show dhcp status
	dns		
	query		
	stats		
		clear	clear dns statistics
		disp	display dns statistics
	icmp		
	status		display icmp statistic counter
	discovery	<iface> [on off]	set icmp router discovery flag
	ifconfig	[iface] [ipaddr] [broadcast <addr> mtu <value> dynamic]	configure network interface
	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
	status		display ip statistic counters
	udp		
	status		display udp status
	tcp		
	status	[tcb] [<interval>]	display TCP statistic counters
	xparent		
	join	<iface1> [<iface2>]	join iface2 to iface1 group
	break	<iface>	break iface to leave ipxparent group
	igmp		
	debug	[level]	set igmp debug level
	forwardall	[on off]	turn on/off igmp forward to all interfaces flag
	querier	[on off]	turn on/off igmp stop query flag
	iface		
		<iface> grouptm <timeout>	set igmp group timeout
		<iface> interval <interval>	set igmp query interval
		<iface> join <group>	join a group on iface
		<iface> leave <group>	leave a group on iface

		<iface> query	send query on iface
		<iface> rsptime [time]	set igmp response time
		<iface> start	turn on of igmp on iface
		<iface> stop	turn off of igmp on iface
		<iface> ttl <threshold>	set ttl threshold
		<iface> v1compat [on/off]	turn on/off v1compat on iface
	robustness	<num>	set igmp robustness variable
	status		dump igmp status

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

CNM Related Command

[Home](#)

Command			Description
cnm			
	active	[1/0] (enable/disable)	display/set CNM features enable/disable
	sgid		display an identifier(sgid) to associate device and security policies residing in ZyCNM
	managerIp	[ZyCNM server IP]	set/display ZyCNM server IP
	debug	[1/0] (enable/disable)	display/set CNM features enable/disable debug mode
	reset		disconnect and re-register to ZyCNM server
	simulate	<1/0> (enable/disable)	set simulating devices features enable/disable
	encrykey	[ZyCNM Encryption Key]	Set/display ZyCNM encryption key
	encrymode	<0 1 2>(none des 3des)	Set/display ZyCNM encryption mode