

IES1248-71 V3.50(LS.1)C0

Release Note/Manual Supplement

Date: July. 22, 2005

This document describes the features in the IES1248-71 for its V3.50(LS.1)C0 release.

Support Platforms:

IES1248-71 V3.50(LS.1)C0 supports models: IES1248-71.

Version:

Bootbase version: V1.09 | 01/18/2005

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ADSL Firmware Version:

DSP F/W: f2.28.0000

Driver : 2.14

Device : 10 revision: 00 vendor: 50

Hardware Feature

- Rack mountable enclosure, 19" 1.5U height
- 48-port ADSL/ADSL2/ADSL2+ with Centillium's Maximus, which consists of four 12-port DSPs and four 12-port AFEs.
- Wintegra's WinPath Network Processor
- Built-in POTS Splitter
- Temperature hardening design
- Temperature sensor for monitoring
- Led indicates for power, system status, system alarm
- Cooling by forced air using internal fans
- Support RTC
- Maximum ADSL transmission rate: 24Mbps per ADSL2+
- ADSL Standard Compliance
 - ADSL
 - G.992.1 Annex A
 - G.992.2 G.LITE
 - ADSL2
 - G.992.3 Annex A
 - G.992.3 Annex L, RE-ADSL
 - ADSL2+
 - G.992.5 Annex A
- Two 100/1000Base-TX or two mini GBIC for uplink
- One console for management
- Two Telco 50 connectors for splitter card over POTS
- Two Telco 50 connectors for 48-port ADSL/ADSL2/ADSL2+

- One RJ-45 for 3 in and 1 out alarm contact

Software Feature

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Known Restriction

1. WEB only works on IE 6.0(and above), Netscape will have some problems in handling the Java script of web configurator.
2. When enabling the MAC filter function, the packets which source MAC not in the accepted list will be blocked, not forwarded by IES1248-71, but their MAC address will still be learned.
3. When static multicast and IGMP snooping set on to the same Multicast Group, the static multicast group will dominate. For example, if you set a static multicast group 225.0.0.3 and 1~48 port leave, even you get a JOIN from Port 48, and you can see in the 'st igmp', the data still can not pass to port 48(since you set Leave in static multicast group). In above case, even you delete the static multicast group 225.0.0.3, you still can not see the data. After you delete the static multicast data group, you need to do IGMP LEAVE first, then JOIN.

CLI Command Table

COMMAND				DESCRIPTION
sys				
	info			
		show		Displays general system information.
		hostname	<hostname>	Sets the system name.
		location	<location>	Sets location information.
		contact	<contact>	Sets contact person information.
	passwd			Sets the system's administrator password.
	reboot	[show sec cancel]		Sets the reboot timer or displays the timer and remaining time for reboot. If a reboot has been scheduled, use this command to prevent a reboot.
	snmp			
		show		Displays SNMP settings.
		getcommunity	<community>	Sets the SNMP GetRequest community.
		setcommunity	<community>	Sets the SNMP SetRequest community.
		trapcommunity	<community>	Sets the SNMP Trap community.
		trustedhost	<ip>	Sets the SNMP trusted host. Set 0.0.0.0 to trust all hosts.
		trapdst	<ip> [<port>]	Sets the SNMP trap server and listening port. Set 0.0.0.0 to not send any SNMP traps.
	server			
		show		Displays the device's service status and port numbers.

COMMAND				DESCRIPTION
		enable	<telnet ftp web icmp>	Turns on a service.
		disable	<telnet ftp web icmp>	Turns off a service.
		port	<telnet ftp web icmp>	Sets a port for a service.
	client			
		show		Displays the device's secured client settings.
		set	<index> <start ip> <end ip> [[telnet] [ftp] [web] [icmp]]	Sets a secured client set: a range of IP addresses from which you can manage the device and the protocols that can be used.
	syslog			The syslog feature sends logs to an external syslog server.
		show		Displays the syslog settings.
		enable		Turns on the syslog logging.
		disable		Turns off the syslog logging.
		server	<ip>	Sets the IP address of the syslog server.
		facility	<facility>	Set the log facility (1~7) to log the syslog messages to different files in the syslog server. See your syslog program's documentation for details.
	time			
		show		Displays the system's current time.
		set	<hh> [<mm> [ss]]	Sets the system's time.
	date			
		show		Displays the system's current date.
		set	<yyyy mm dd>	Sets the system's date.
	timeserver			

COMMAND				DESCRIPTION
		show		Displays the system's time server.
		set	<none>	Sets the system to not use a time server.
			<daytime time ntp> <ip> <utc[<+ ->0100~1200]> [nosync]	Sets the time service protocol, time server's IP address and the device's time zone.
		sync		Retrieves the date and time from the time server.
	log			
		show		Displays the device's logs.
		clear		Clears the device's logs.
	wdog			
		show		Displays the current watchdog firmware protection feature status and timer.
		set	<msec 0:disable>	Sets the watchdog count. 0 turns the watchdog off.
	monitor			
		show		Displays the hardware monitor's statistics.
		enable		Turns the hardware monitor on.
		disable		Turns the hardware monitor off.
		vlimit	<idx> <high> <low>	Sets the maximum (<high>) or minimum (<low>) voltage at the specified voltage sensor. You can specify a voltage with up to three digits after a decimal point (0.941 for example). Normal voltage at each sensor: ldx: 1=1.0v, 2=1.8v, 3=3.3v, 4=24v

COMMAND				DESCRIPTION
		tlimit	<idx> <high> <low>	Sets the maximum (<high>) or minimum (<low>) temperature at the specified temperature sensor. You can specify a temperature with up to three digits after a decimal point (-50.025 for example). Temperature sensor locations: Idx: 1=DSL, 2=CPU, 3=HW monitor
		flimit	<idx> <high> <low>	Sets the maximum (<high>) or minimum (<low>) fan revs per minute (RPM) at the specified fan (<idx>). Idx: 1=Fan 1, 2=Fan 2, 3=Fan 3.
adsl				
	show	[portlist]		Displays the ADSL settings.
	enable	<portlist>		Turns on the specified ADSL ports.
	disable	<portlist>		Turns off the specified ADSL ports.
	profile			
		show	[profile]	Displays profile contents.
		set	<profile> <fast interleave [=<up delay>,<down delay>]> <up max rate> <down max rate> [<up target margin> <up min margin> <up max margin> <up min rate> <down target margin> <down min margin> <down max margin> <down min rate>]	Creates an adsl line profile.
		delete	<profile>	Removes an ADSL profile.
		map	<portlist> <profile> <glite gdmt t1413 auto adsl2 adsl2+>	Assigns a specific profile to a port(s) and sets the port's ADSL mode).

COMMAND				DESCRIPTION
	name	<portlist>	<name>	Sets the name of a port(s).
	tel	<portlist> <tel>		Records an ADSL port(s) subscriber's telephone number.
	loopback	<portlist>	<f5> <vpi> <vci>	Performs an OAMF5 loopback test.
	vcprofile			
		show	[vcprofile]	Shows a virtual channel profile's contents.
		set	<vcprofile> <vc llc> <ubr cbr> <pcr> <cdvt>	Creates a UBR or CBR virtual channel profile (with encapsulation).
			set <vcprofile> <vc llc> <vbr(rt-vbr) nrt-vbr> <pcr> <cdvt> <scr mcr> <bt nrm>	Creates a VBR virtual channel profile (with encapsulation).
		delete	<vcprofile>	Removes a virtual channel profile.
	pvc			
		show	[portlist] [<vpi> <vci>]	Displays PVC settings.
		set	<portlist> <vpi> <vci> <pvid> <priority> <vcprofile>	Creates or modifies a PVC setting.
		delete	<portlist> <vpi> <vci>	Removes a PVC setting.
	linediag			
		setld	<port number>	Sets the specified port to line diagnostic mode.
		getld	<port number>	Displays the specified port line diagnostics.
	alarmprofile			
		show	[profile]	Displays alarm profiles and their settings.

COMMAND				DESCRIPTION
		set	<profile> [<atuc lofs> <atur lofs> <atuc loss> <atur loss> <atuc lols> <atur lols> <atuc lprs> <atur lprs> <atuc ess> <atur ess> <atuc fast rateup> <atur fast rateup> <atuc interleave rateup> <atur interleave rateup> <atuc fast ratedown> <atur fast ratedown> <atuc interleave ratedown> <atur interleave ratedown> <init fail enable> <atuc fail fast> <atuc ses> <atur ses> <atuc uas> <atur uas>]	Configures an alarm profile.
		delete	<profile>	Removes an alarm profile.
		map	<portlist> <profile>	Maps specified ADSL ports to an alarm profile.
		showmap	[profile]	Displays alarm profile to ADSL port mapping.
		showport	<port>	Displays which alarm profile parameters are mapped to an ADSL port.
	annexl			
		enable	<portlist>	Turns on the Annex L feature on the specified port(s).
		disable	<portlist>	Turns off the Annex L feature on the specified port(s).
		show	<portlist>	Displays the Annex L feature setting for the specified port(s).
	sra			
		enable	<portlist>	Turns on Seamless Rate Adaptation (SRA) ADSL2+ on the specified port(s).
		disable	<portlist>	Turns off SRA ADSL2+ on the specified port(s).

COMMAND				DESCRIPTION
		show	<portlist>	Displays the SRA ADSL2+ setting for the specified port(s).
	pmm			
		enable	<portlist>	Turns on the Power Management feature on the specified port(s).
		disable	<portlist>	Turns off the Power Management feature on the specified port(s).
		show	<portlist>	Displays the Power Management feature setting for the specified port(s).
switch				
	igmpsnoop			
		show		Displays the IGMP snooping setting.
		enable		Turns on IGMP snooping.
		disable		Turns off IGMP snooping.
	igmpfilter			
		set	[<port> *] <name>	Sets an ADSL port(s) to use an IGMP filter profile.
		show	<portlist>	Displays which IGMP filter profile an ADSL port(s) is using.
		profile		
			set <name> <index> <startip> <endip>	Configures an IGMP filter profile.
			delete <name>	Removes an IGMP filter profile.
			show [<name> *]	Displays an IGMP filter profile's settings.
	queuemap			
		show		Displays the system's priority level to physical queue mapping.
		set	<priority> <queue>	Maps a priority level to a physical queue.
	garptimer			

COMMAND				DESCRIPTION
		show		Displays the GARP timer status.
		join	<join msec>	Sets the GARP timer's Join Timer.
		leave	<leave msec>	Sets the GARP timer's Leave Timer.
		leaveall	<leaveall msec>	Sets the GARP timer's Leave All Timer.
	rstp			
		show		Displays the RSTP settings.
		enable		Turns on RSTP.
		disable		Turns off RSTP.
		priority	<priority>	Sets the system's priority.
		hellotime	<hellotime sec>	Sets the hello timer.
		maxage	<maxage sec>	Sets the max age timer.
		fwdelay	<fwdelay sec>	Sets the forward delay time.
		port	show	Displays the Ethernet ports' RSTP settings.
			enable	Enables RSTP on this port.
			disable	Disables RSTP on this port.
			priority	Sets the specified port's priority.
			pathcost	Sets the specified port's path cost.
	dhcprelay			
		show		Displays DHCP relay settings.
		enable		Turns on DHCP relay.
		disable		Turns off DHCP relay.
		server		
			<server ip>	Sets a DHCP relay server IP address entry.
		option82		
			enable	Turns on the DHCP relay agent information (Option 82) feature.

COMMAND				DESCRIPTION
			disable	Turns off the DHCP relay agent information (Option 82) feature.
			set <relay info>	Adds the specified information for the relay agent.
	vlan			
		show	<vlanlist>	Displays VLAN settings.
		portshow	[portlist]	Displays the port(s) VLAN settings.
		set	<vid><portlist>:<F<T U> X N> [<portlist>:<F<T U> X N> ...] [name]	Configures a VLAN entry.
		enable	<vid>	Turns on a VLAN entry.
		disable	<vid>	Turns off a VLAN entry.
		delete	<vlanlist>	Removes a VLAN entry.
		pvid	<portlist> <pvid>	Sets the PVID (Port VLAN ID) assigned to untagged frames or priority frames (0 VID) received on this port(s).
		priority	<portlist> <priority>	Sets a port's default IEEE 802.1p priority.
		gvrp	<portlist> <enable disable>	Turns GVRP on or off for the specified ports.
		frametype	<portlist> <all tag untag>	Sets the specified DSL port to accept tagged, untagged or Ethernet frames (or both). Note: enet1, enet2 are fixed at 'all'.
		cpu	show	Displays the VLAN ID of the management VLAN.
			set <vid>	Sets the VLAN ID of the management VLAN.
	mac			
		flush		Clears learned MAC addresses from the forwarding table.
		agingtime		

COMMAND				DESCRIPTION
			show	Displays the MAC aging out time period.
			set <sec 0:disabled>	Sets the MAC aging out time period.
		count		
			show [portlist]	Displays the system's current MAC address count settings.
			enable <portlist>	Turns on the MAC address count filter for an ADSL port(s).
			disable <portlist>	Turns off the MAC address count filter for an ADSL port(s).
			set <portlist> <count>	Sets the MAC address count filter for an ADSL port(s).
		filter	show [portlist]	Displays MAC filter settings.
			enable [portlist]	Turns on the MAC filter.
			disable [portlist]	Turns off the MAC filter.
			set <port> <mac> [<mac> <mac> ...]	Adds a MAC filter MAC entry on an ADSL port(s).
			delete <port> <mac> [<mac> <mac> ...]	Removes a MAC filter MAC entry on an ADSL port(s).
	pktfilter			
		show	[portlist]	Displays packet type filter settings.
		set	<portlist> [filter]	Sets the packet type filter for an ADSL port(s)port.
		pppoeonly	[portlist]	Set ports as PPPoE client only users.
	dot1x			
		show	[portlist]	Displays IEEE 802.1X settings.
		enable		Turns on IEEE 802.1X.
		disable		Turns off IEEE 802.1X.

COMMAND				DESCRIPTION
		auth	<profile radius>	Sets IEEE 802.1X to use the local profiles or an external RADIUS server for authentication.
		port		
			enable <portlist>	Turns on IEEE 802.1X for specific ADSL ports.
			disable <portlist>	Turns off IEEE 802.1X for specific ADSL ports.
			control <portlist> <auto auth unauth>	Sets the IEEE 802.1X port authentication option for specific ADSL ports.
			reauth <portlist> <on off>	Sets the IEEE 802.1X re-authentication option for specific ADSL ports.
			period <portlist> <period>	Sets the IEEE 802.1X re-authentication period for specific ADSL ports.
		radius		
			show	Displays the external RADIUS server settings.
			ip <ip>	Sets the external RADIUS server IP address.
			port <port>	Sets the external RADIUS server port number.
			secret <secret>	Sets the authentication and encryption key.
		profile		
			show	Displays the local profiles.
			set <name> <password>	Creates or edits a local profile.
			delete <name>	Removes a local profile.
	enet			
		show		Displays the Ethernet port settings.
		speed	<portlist> <1000fiber 1000copper 100copper auto>	Sets the Ethernet port(s) connection speed.
		name	<portlist> <name>	Sets the Ethernet port(s) name.

COMMAND				DESCRIPTION
		enable	<portlist>	Turns on the specified Ethernet port(s).
		disable	<portlist>	Turns off the specified Ethernet port(s).
	smcast			Use the static multicast filter to pass routing protocols, such as RIP and OSPF.
		show		Display all MAC addresses joined to ADSL ports.
		set	<adsl_port> <mac> <join leave>	Use join/leave to add/remove multicast MAC addresses on specified ADSL ports, a range of ADSL ports or all ADSL ports. MAC example: 01005E010203
		delete	<mac>	Removes a static multicast filter entry by deleting the associated MAC address.
	isolation			
		show		Displays the subscriber isolation feature's current setting.
		enable		Turns the subscriber isolation feature on.
		disable		Turns the subscriber isolation feature off.
		daisychain		Sets the device to daisychain mode.
		standalone		Sets the device to standalone mode.
ip				
	show			Displays the management IP address settings.
	arp			
		show		Displays the device's IP Address Resolution Protocol(ARP) table.
		flush		Clears the device's IP Address Resolution Protocol(ARP) table.

COMMAND				DESCRIPTION
	set	<ip>[/netmask]		Sets the management IP address and subnet mask.
	gateway	<gateway ip>		Sets the IP address of the device's default gateway.
	route			
		show		Displays the routing table.
		set	<dst ip>[/netmask] <gateway ip> [metric] <name>	Adds a routing table entry.
			default <gateway ip> <metric>	Sets the device's default route.
		delete	<dst ip>[/netmask]	Removes a routing table entry.
		flush		Clears the routing table.
	ping	<ip> [count]		Pings a remote host.
statistics				
	monitor			Displays hardware monitor status.
	adsl			
		show	[portlist]	Displays ADSL port connection status.
		linedata	<portlist>	Displays the line data load per symbol (tone).
		lineinfo	<portlist>	Displays the info of the specified ADSL ports.
		lineperf	<portlist>	Displays the performance statistics of the specified ADSL port.
		linerate	<portlist>	Displays the line rate.
		15mperf	<portlist> [count <0..96>]	Displays line performance statistics for the current and previous 15-minute periods.
		1dayperf	<portlist>	Displays line performance statistics for the current and previous 24 hours.
	igmpsnoop			Displays IGMP snooping statistics.
	rstp			Displays RSTP statistics.
	vlan			Displays current VLANs.

COMMAND				DESCRIPTION
	mac			Displays current MAC address forwarding table.
	port	<portlist> [<vpi> <vci>] [clear]		This command displays and/or erases port statistics.
	dot1x			Displays IEEE 802.1X statistics.
	enet			Displays Ethernet port settings and statistics.
	ip			Displays a management port's status and performance data.
config				
	show	<sys sw adsl ip stat all> [nopause]		Displays the device's configuration.
	save			Saves the current configuration.
	restore			Reloads the factory default configuration.
exit				Ends the console or telnet session.