



**Firmware Release Note**

**P-870MH-C1  
Standard Version**

**Release 3.50(RT.1)C0**

**Date:**  
**Author:**

**Dec, 6, 2006**  
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# **ZyXEL P-870MH-C1 Standard Version Release 3.50(RT.1)C0 Release Note**

**Date:** Dec, 6, 2006

## **Supported Platforms:**

ZyXEL P-870MH-C1

## **Versions:**

ZyNOS Version: V3.50(RT.1) | 12/06/2006 09:35:54

Bootbase Version: V1.04 | 06/23/2006 19:39:15

## **Notes:**

The P-870MH-C1 is a high performance **VDSL** modem for the application in the living room. The P-870MH-C1 constructs a specific home network to provide the household members **Triple Play Service** to satisfy the requirement to transfer data, voice, and video on the Internet. Through the **high data rate, up to 100/50M**, the P-870MHW-C1 takes the advantages of faster and more stable data transfer over the existing copper line. The P-870MHW-C1 is integrated with advanced **Quality of Service (QoS)** features to provide Triple Play delivery with satisfied quality.

P-870MHW-C1 four single auto-sensing, auto-detection 10/100BASE-T Ethernet ports for connection to the user's local network, and a single RJ-11 port for connection to VDSL line.

## **Notes:**

1. Currently, VDSL can link up with **VLC1224G-41** only.

## **Features:**

### **Modification in 3.50(RT.1)C0 | 12/06/2006**

1. Change to FCS version

### **Modification in 3.50(RT.1)b1 | 11/30/2006**

1. Hide and remove useless CLI commands
2. pen the vlan qos commands for user access on telnet
3. Turn on the VDSL flow control

### **Modification in 3.50(RT.0)C0 | 09/01/2006**

2. Change rom file to turn SMT by default.
3. Change to FCS version

### **Modification in 3.50(RT.0)b4 | 08/18/2006**

4. [BUGFIX] IGMP snooping can not work
5. [BUGFIX] Multicasting has problem.

### **Modification in 3.50(RT.0)b3 | 07/31/2006**

6. Upgrade VDSL data pump form S52 to S60.

### **Modification in 3.50(RT.0)b2 | 07/13/2006**

1. Change VDSL parameter about Data interface from Packet mode to EFM mode.

### **Modification in 3.50(RT.0)b1 | 06/23/2006**

1. Create this project for OBM version.

**Annex A CI Command List**

System Related Command

[Home](#)

Command				Usage	Description
sys					
	date			[year month date]	set/display date
	domainname				display domain name
	hostname				display system hostname
	stdio			< #seconds >	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
	romreset				restore default romfile
	cpu				
exit					exit smt menu
ip					
	address			[addr]	display host ip address
	arp				
		status		<iface>	display ip arp status
	ping			<hostid>	ping remote host
	status				display ip statistic counters
	udp				
		status			display udp status
	tcp				
		status			display TCP statistic counters
	igmpsnp				
		enable			Enable IGMP Snooping
		disable			Disable IGMP Snooping
		maxresptime		[num]	Configure max response time.
		queryinterval		[num]	Configure Query Interval.
		robust		[num]	Configure Robustness value.
		disp			Display IGMP Snooping status
vdsl					
	status				Display VDSL status
	pktcntclr				Clear VDSL packet counter
vlanQoS					
	1qset			[ vid ]	For 802.1Q VLAN setting ➤ [ vid ] = 1 ~ 4094 This command will add this vid into 802.1q table, and the 802.1q table will be added a new item for this vid automatically.
	1qconfig			[item number] [ cmd ] [port #] [port #]...	For 802.1Q VLAN setting ➤ [ item number ] = 0 ~ 7 Setting this item's configuration of 802.1q table. If the item's vid is 0, then this item cannot be set. ➤ [ cmd ] U = Untagged Port T = Tagged Port F = Forbidden Port ➤ [ Port # ] The related ports' setting will follow the cmd.

	clear			[ cmd ] [ port/item ]	<ul style="list-style-type: none"><li>➤ [ cmd ] : p/P : Port Base Table 1: : 802.1q Table a/A : all Table to initial state</li><li>➤ [ port/item ] : Port : if cmd = p/P, then this port will be set to default value. Item : if cmd = 1, then this item will be clear. If cmd = a/A, then is argument is ignored.</li></ul>
	disp				To show the all of the VLAN and QoS configuration.
	modechane			[ mode ]	<ul style="list-style-type: none"><li>➤ [ mode ] : 0 : Port Base VLAN mode 1 : 802.1q VLAN mode</li></ul>
	pvlanset			[ vid ] [port #] [port #]	<p>For Port Base VLAN setting</p> <ul style="list-style-type: none"><li>➤ [ vid ] = 1 ~ 4094</li><li>➤ [ Port # ]</li></ul> <p>The related ports will be assigned to specific vid.</p>
	ratio			[ port ID ] [ level ]	<p>For QoS setting</p> <ul style="list-style-type: none"><li>➤ [ port ID ] = 1 ~ 5</li><li>➤ [ level ] 0 = Low priority. 1 = High priority.</li></ul>
	save				To save the setting into SPT and re-configure switch. When you reconfigure the VLAN and QoS setting, then the save command should be executed after configuration.

## **Modifications:**

### **Modification in 3.50(RT.1)C0 | 12/06/2006**

1. Change to FCS version

### **Modification in 3.50(RT.1)b1 | 11/30/2006**

1. Hide and remove useless CLI commands
2. open the vlan qos commands for user access on telnet
3. Turn on the VDSL flow control

### **Modification in 3.50(RT.0)C0 | 09/01/2006**

1. Change rom file to turn SMT by default.
  - Add new "sys smt on" command to autoexec.net to turn on SMT by default
2. Change to FCS version

### **Modification in 3.50(RT.0)b4 | 08/18/2006**

#### **[BUGFIX]**

1. [SPRID: 060808550 L2]  
Symptom: SMT menu24.1 reset counter function issue.  
Condition: 1. By default, go to SMT menu24.1  
2. Enter "1" to reset the counters.  
3. Device do exception.
2. [SPRID: 060808554 L1]  
Symptom: IGMP snooping can not work.  
Condition: 1. BY default, enable the IGMP snooping.  
2. Start the IGMP Multicasting test.  
3. Check the CI command, no entry in IGMP snooping table.  
4. Other port still can receive the multicasting traffic.
3. [SPRID: 060808555 L1]  
Symptom: Multicasting has problem.  
Condition: 1. By default, Multicasting test.  
2. Can not see the video but only can hear the voice.

### **Modification in 3.50(RT.0)b3 | 07/31/2006**

1. Upgrade VDSL data pump form S52 to S60.

### **Modification in 3.50(RT.0)b2 | 07/13/2006**

1. Change VDSL parameter about Data interface from Packet mode to EFM mode.

### **Modification in 3.50(RT.0)b1 | 06/23/2006**

1. Create this project for OBM version.

## 2. Manufactory Data in Bootbase

```
ZyNOS Version      : V3.50(RT.1) | 12/06/2006 09:35:54
Bootbase Version   : V1.04 | 06/23/2006 19:39:15
Vendor Name        : ZyXEL Communications Corp.
Product Model      : P-870MH-C1
ZyNOS ROM address   : be008000
System Type        : 10
MAC Address        : 001349854678
Default Country Code : FF
Boot Module Debug Flag : 00
RomFile Version     : 4A
RomFile Checksum    : cf3f
ZyNOS Checksum      : 86d5
Core Checksum       : de55
SNMP MIB level & OID :
060102030405060708091011121314151617181920
Main Feature Bits   : C0
Other Feature Bits   :
                00 7B 00 00 00 00 00 00-00 00 00 00 00 00 00 00
                00 00 00 00 00 00 00 00-00 41 13 00 00 00
```

Notes:

- Debug Flag should be 0 after production. In our default release will be 1. Because in the manufacture process will need it to set the MAC address.
- MAC address will be change by production process. Only the fist 3 octets will be correct. The last 3 octets will depend on the production process.

## 3. Default ROM File Value Setting

• Menu 1: General Setup

```
Menu 1 - General Setup

System Name= ?
Domain Name=

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

•

• Menu 3: LAN Setup

```
Menu 3 - LAN Setup

2. TCP/IP and DHCP Setup

5. Wireless LAN Setup

Enter Menu Selection Number:
```

.  
.  
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Menu 3.2 TCP/IP and DHCP Setup

Menu 3.2 - TCP/IP and DHCP Ethernet Setup	
DHCP= None	TCP/IP Setup:
Client IP Pool:	
Starting Address= N/A	IP Address= 192.168.1.2
Size of Client IP Pool= N/A	IP Subnet Mask= 255.255.255.0
	Multicast= None
	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 23 - System Password

Menu 23 - System Password	
Old Password= ?	
New Password= ?	
Retype to confirm= ?	
Press ENTER to Confirm or ESC to Cancel:	

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Menu 23 - System Password

Menu 23 - System Password	
Old Password= ?	
New Password= ?	
Retype to confirm= ?	
Press ENTER to Confirm or ESC to Cancel:	



## ZyXEL Confidential

- Menu 24 - System Maintenance

```
Menu 24.2 - System Information and Console Port Speed

Menu 24 - System Maintenance

1. System Status
2. System Information and Console Port Speed
3. Log and Trace

7. Upload Firmware
8. Command Interpreter Mode

Please enter selection:
```

- Menu 24.2.1: System Maintenance -Information

```
Menu 24.2.1 - System Maintenance - Information

Name:
Routing: IP
ZyNOS F/W Version: V3.50(RT.1) | 12/06/2006
Country Code: 255

LAN
Ethernet Address: 00:13:49:00:00:01
IP Address: 192.168.1.2
IP Mask: 255.255.255.0
DHCP: None

Press ESC or RETURN to Exit:
```

- 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:
```

- Default commands in autoexec.net

```
ras> sys view autoexec.net
sys wdog sw on
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
```

```
bridge mode 1  
sys smt on
```

- CLI commands

```
ras> vlan clear m  
ras> ip igmpsnp enable  
ras> sys stdio 5
```