Cyber Power®

User's Manual

Network Management Card

Intelligent Network Management Card allows UPS to be managed,monitored,and configured via SNMP Card Configuration Tool

Version 1.3

TABLE OF CONTENTS

INTRODUCTION	1
INSTALLATION GUIDE	4
CONFIGURATION GUIDE	7
Monitoring	7
Current Status	7
UPS Information	8
Control	9
UPS Control	9
UPS Reboot	10
UPS Schedule	11
System	12
System Time	12
User Accounts	12
Identification	13
Network	13
TCP/IP	13
Access Control	13
Trap Notification	14
Events	15
Event Log	15
Event Generation	15
UPS Shutdown	16
Summary	17
Appendix 1. IP Address Settings of CyberPower Network Management Card	18

INTRODUCTION

Overview

The CyberPower Network Management Card is an external card that allows remote monitoring and control of a UPS on a network. After installing the hardware and configuring an IP address, the user can access, monitor and control the UPS from anywhere in the world! No software installation is needed. Simply use a web browser such as Internet Explorer or FireFox to access your UPS. Servers and workstations protected by the UPS can be installed with PowerPanel[®] Shutdown Service software to utilize the additional remote shutdown features of the Network Management Card.

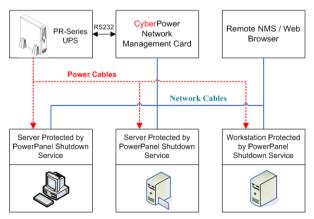
Features

- Remote management and configuration of UPS via Web Browsers or NMS
- Supports TCP/IP, UDP, SNMP, HTTP protocols
- Automatic events notification via SNMP Traps
- Flexible Event Action setting
- Auto-shutdown to protect servers and workstations from data loss due to power failure
- Schedule shutdown/startup/reboot of UPS remotely
- Event logging to trace UPS operation history
- SNMP MIB provided
- 10Mbps Ethernet compatible
- Quick installation and user friendly interface
- Security management provided

System Requirements

- A computer with a Windows Operating System (for optional PowerPanel[®] Shutdown Service)
- An Ethernet cable connection to an existing network
- NMS (Network Management Station) compliant with SNMP (for optional NMS management)
- A RS232 cable to connect the CyberPower Network Management Card with the UPS

Application:

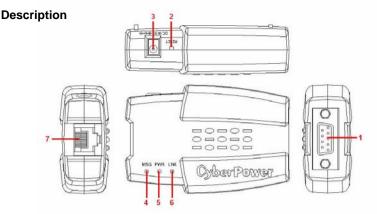


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Unpacking

Inspect the Network Management Card upon receipt. The package should contain the following:

- •
- CyberPower Network Management Card PowerPanel[®] Shutdown Service Software and user manuals CD •
- AC adapter (For select UPS models only)



- 1) **Serial Port** provides a connection for communication between the UPS and the Network Management Card
- 2) Reset Button is used to reset the settings. When the Reset Button is pushed for 3 seconds, all settings except for the IP address for Network Management Card will refresh to default values. When the Reset Button is pushed for more than 3 seconds, all settings including the IP address for CyberPower Network Management Card will reset to default values.
- 3) DC power input allows input of power from the AC adapter(for select UPS models only) into wall socket. The DC power input is only used when the Network Management card is connected to select UPS models that don't supply power to the Network Management Card.
- 4) MSG Indicator indicates the status of connection between UPS and the Network Management Card. This indicator light will flash when Network Management Card IS NOT connected to the UPS.
- 5) **PWR Indicator** indicates the power is on or off. It illuminates when the Network Management Card is powered ON.
- 6) LINK Indicator indicates the status of network connection. It illuminates when the Network Management Card is connected to the network.

7) 10M Ethernet connector

Le d'anten	Marila	
Indicator	Mode	Condition
MSG	Off	The Network Management Card is connected to UPS
(Red)	Flashing	No connection between the Network Management Card and
(Red)	_	the UPS
PWR	Off	The Network Management Card Power Is Off
(Green)	On	The Network Management Card Power Is On
LINK	Off	The Network Management Card is disconnected to the
(Yellow)		Network
(Tellow)	On	The Network Management Card is connected to the Network

Definitions for LED Indicators

INSTALLATION GUIDE

Step 1. Hardware Installation

- 1. Connect the Ethernet cable to the LAN port of the CyberPower Network Management Card.
- Connect the CyberPower Network Management Card to the UPS communication port. It is optional to use the serial cable included.
- 3. Connect the AC adapter (for select UPS models only) to the Network Management Card Adapter and plug into the wall socket..
- 4. After the above procedures are done, press and hold the Reset Button on the Network Management Card for 7 seconds to ensure the IP Address is at the default value.

Step 2. Configure the IP address for the CyberPower Network Management Card. Method 1 : Use SNMP Card Configuration Tool Setting

- 1. Install the SNMP Card Configuration Tool from the included CD
- 2. Run the "wsnmpcfg" program in the "All Programs"->"SNMP Card Configuration Tool".
- 3. The main dialog of the "SNMP Card Configuration Tool" program is shown as Figure. 1. The configuration tool will display all the SNMP cards present on the network. The "Refresh" button is used to search the entire local network for SNMP cards.

SnmpCard List				
MAC Address	IP Address	Subnet Mask	Gateway	Nam
90-0C-15-90-01-00 99 00-0C-15-00-00-04	192.168.20.118 192.168.20.45	255.255.255.0 255.255.255.0	192.168.20.1 192.182.20.1	Powe Cybe
<				2

Figure 1. The main window of the "SNMP Card Configuration Tool" program.

- 4. Choose "Setup as selected" under the "Tool" menu or double click the SNMP card device.
- 5. You can modify the new IP, new subnet mask, and new gateway address through the IP or MAC address in the SNMP card setting window, as shown in figure 2.

Setting	
Device Address	
IP Address:	192 . 168 . 41 . 62
O MAC Address:	00-0C-15-80-00-01
Modify	
New IP Address:	192 . 168 . 41 . 62
🔲 New Subnet Mask:	255 . 255 . 255 . 0
🔲 New Gateway:	192 . 164 . 30 . 1
Allow setting of ip ou	ut of subnet
	OK Cancel

Figure 2. The SNMP card setting window.

- 6. First, choose either IP or MAC address from the device address option.
- 7. Then click on each checkbox to modify the IP, subnet mask or gateway address. Enter the new addresses into the corresponding fields.
- 8. You will need to input password for the SNMP card (Figure 3) in the authentication window, as shown in figure 3. *Default User name: cyber; Default Password: cyber

uthentication			Đ
Authenticatio			
The user nar	ne and pass	word are verified by SnmpC	ard device.
User name:	1	Password:	1

Figure 3. Authentication window.

9. If you set IP address successfully, you will receive the IP set up OK message, as shown in figure 4.

wsnmpcfg		×
Ų.	Setup IP: 192.168.20.112 OK SNMP Device Information	:
	*IP Address : 192.166 Subnet Mask : 255.255 Gateway : 192.168	.255.0
	Note: The * denotes a modifie	d field
	ОК	

Figure 4. Setup IP Address successfully message.

Method 2 : Use DOS Mode Setting

1. Obtain the MAC address indicated on the label of the Network Management Card rear

panel. (Each Management Card has a unique MAC address).

2. Use the ARP commend to set you IP address. For example, to assign an IP address 192.168.20.240 in the same subnet as your computer for Network Management Card, which has the MAC address 00-0c-15-00-00-01, type:

arp -s 192.168.20.240 00-0c-15-00-00-01

and press Enter.

3.To verify the setting, please type:

ping 192.168.20.240

and press Enter. If replies are received, the IP address has been set.

To find an IP address for the Network Management Card, please refer to Appendix 2. If you want to assign an IP address which is in different subnet to your computer for Network Management Card, you should followed Step 2, and then enter the Browser Mode Configuration to establish the IP address.

- 1. Open your Web Browser (Internet Explorer or Firefox)
- 2. Enter the IP Address which you previously configured.
- 3. On the login page, enter the default username "cyber" and password "cyber".
- Click on TCP/IP Configuration on the Network menu to change the IP address. Click 'Apply' to save.

8% 182 108 20 177	TCP/	IP Configuration	
Monitoring			
Control	TCD/IP Betling: Bystem IP:	p=12.348.20277	E
System	Bullevet Mask:	per202813	
	Default Gatemay: Eystem MAC Address:	Fill 10(20) 00-0c-15-00-09-22	
 Network 	And Own		
(0999)	Annual Annual		
· Arcone Control			
- Type Institution			
Events			
Summary			

CONFIGURATION GUIDE

[Monitoring] menu contains [Current Status] page and [UPS Information] page

192.168.20.177			
	Curr	ent Status	
Monitoring			
Current Status	Input Line Voltage	110.0 V	
	Output Frequency	60.0 Hz	
UPS Information	Maximum Line Voltage	111.0 V	
	Minimum Line Voltage	110.0 V	
Control	Output Voltage	110.0 V	
Ductore	UPS Load	0%	
System	Internal Temperature	33.0 °C	
Vetwork	Battery Capacity	100 %	
	On Battery Time	00:00:00	
Events			
Summary			

[Current Status] displays basic information of UPS current status.

Status Field	Definition
Input Line Voltage	Shows the current input voltage of the utility power
Output Frequency	Displays the frequency of the utility power
Maximum Line Voltage	Identifies the highest voltage of the utility power input to the UPS during the previous minute of operation.
Minimum Line Voltage	Identifies the lowest voltage of the utility power input to the UPS during the previous minute of operation.
Output Voltage	Shows the output voltage of the UPS.
UPS Load	Shows the percent of battery capacity that is currently being used.
Internal Temperature	Displays the internal operating temperature of the UPS.
Battery Capacity	Displays the current battery charge level.
On Battery Time	Displays the battery time available. This display factors in the UPS load and the Battery Capacity.

[UPS Information] provides the technical specifications of your UPS.

192.168.20.177	LIPS	Information	
Monitoring	UPSI	mormation	
+ Current Status	Model Name	PR2200	
- Current statics	Voltage Rating	120.0 V	
-UPS Information	Working Frequency	60.000 Hz	
200 M	Power Rating	2200 VA	
Control	Load Power	1500 Watt	
System	Battery Voltage Rating	48.0 V	
System	Firmware Version	1.100	
Network	Selftest Date	01/01/2006	
	Selftest Result	Passed	
Events			
and the second se			
Summary			

Information	Description
Model Name	Displays the UPS's model number
Voltage Rating	Identifies the current AC voltage to the UPS.
Working Frequency	Displays the current frequency of the UPS.
Power Rating	Displays the capacity of the UPS in VA.
Load Power	Identifies the capacity of the UPS in Watts.
Battery Voltage Rating	Displays the DC voltage of the battery.
Firmware Version	Shows the firmware version of the UPS.
Self-test Date	Displays the date of last self-tests
Self-test Result	Displays the latest self-test result.

Please Note: [Self-test Date] and [Self-test Result] will only display when a self-test has been set or performed.

CyberPower Network Management System

[Control] menu contains [UPS Control] page, [UPS Reboot] page, and [UPS Schedule] page.

-UPS Control O Beep Battery Test -UPS Control O Cancel Deep Battery Test -UPS Reboot O Put UPS to Sleep Mode -standate O Wake up UPS System Turn Off UPS Buzzer System Cond	Log		0.20.177	102 168 20 177
Monitoring Control Control Control Control Concel Deep Battery Test Control Concel Deep Battery Test Control Concel Deep Battery Test Visitated Visitated Visitated Visitated Visitated Turn off UPS Buzzer System Katel Contel Visitate Visitated Vis				The Toron of The
Control Contro				Manifest
-URS Control O Deep Battery Test Cancel Deep Dattery Test Cancel Deep Dattery Test O Cancel Deep Dattery Test -URS Rebox O Put UPS to Sleep Mode -Schedel O Turn Off UPS Buzzer System Network				
-UPS Central O Cancel Deep Battery Test O Put UPS to Sleep Mode O Veke up UPS Stockale O Turn Off UPS Buzzer System Kotv Cood			bl	Control
-LBS Robert O Put UPS to Steep Mode -Streads O Wake up UPS O Turn Off UPS Buzzer System Network			ritrol	UPS Control
- Satvade O Wake up UPS O Turn Off UPS Buzzer System Axto Oxac				
System Axth Omega Network			boot	- UPS Reboot
System Axit Cox			le internet	- Schedule
Network				
		Appy Cance	n	System
			rk	Network
Events				Events
Summary				

[UPS Control] allows basic remote control of the UPS.

Select one test by clicking the button on the left of the command. Click [Apply] to run the test. Click [Cancel] to stop any command that has been selected.

Please Note: If the UPS is shut OFF, the following commands will not work. The Network Management Card will display the message: "Command fails. UPS is turned off."

Commands	Definition
Auto Diagnostics	To diagnose that the UPS can function well under Battery mode.
Deep Battery Test	The Deep Battery test will discharge the batteries. The test will automatically stop when the batteries are low, and return to AC-On line power.
Cancel Deep Battery Test	This command will stop the Deep Battery Test.
Put UPS to Sleep Mode	To turn off the UPS (no power output from the outlets).
Wake up UPS	To turn on the UPS when it is in sleep mode.
Turn Off UPS Buzzer	To turn the audible alarm of the UPS on/off.

[UPS Reboot] allows advanced remote control of the UPS. Select one function by clicking its button. Click [Apply] to begin the operation. Select [Cancel] to refresh the selection.

Cyber Power		PR2200
192.168.20.177		Logo
Monitoring	UPS Reboot	
* Control	Reboot UPS Immediately	
- UPS Control	○ Delay UPS Reboot ⁰³ (min)	
-UPS Reboot	Cancel UPS Reboot Turn Off UPS Immediately	
→ Schedule	Delay UPS Turn Off ⁽⁰⁾ (min)	
	Cancel UPS Turn Off	
System	O Turn On UPS Immediately	
Network	Apply Canori	
Events		
Summary		

Note: The commands in [UPS Reboot] menu may change by the settings in the [UPS Schedule] menu.

Commands	Definition
Reboot UPS Immediately	To turn the UPS off and then on again.
Delay 03 min(s) to Reboot UPS 3 minutes is a default value. The user may select number between 1-99. The UPS will shut off and the set amount of time before turning back on.	
Cancel Reboot UPS	To stop the previous command "Delay 03 min(s) to Reboot UPS.
Turn Off UPS Immediately	To turn the UPS off immediately.
Delay 03 min(s) to Turn Off UPS	3 minutes is a default value. The user may select any number between 1-99. The UPS will wait the set amount of time before turning OFF.
Cancel Turn Off UPS	To stop the previous command "Delay 03 min(s) to Turn Off UPS
Turn On UPS Immediately	To turn on UPS when it is turned off.

CyberPower Network Management System

[UPS Schedule]: Sets the UPS to automatically shutdown and restart at consistent times - weekly or daily.

192.168.20.177		• CA21	1. N.	
Monitoring		Sche	dule	
Control	Feature	Shutdown Time	Turn Back on	Status
STATISTICS	1. Special	01/01/2007 at 00:59	Next Day at 00:59	Disable
-UPS Control	2. Weekly	Every Sunday at 00:59	Next Day at 00:59	Enable
- UPS Reboot	3. Daily 4. Special	Every day at 00:59 02/15/2008 at 16:46	Next Day at 00:59 Next Day at 16:46	Enable
	5. Weekly	Every Thursday at 16:46	Next Day at 16:46	Enable
- Schedule				
System	Add a new St	ecial, Weekly or Daily schedu	led shutdown.	NerPage
Network				
Events				
Summary				
Summary				

[Special Shutdown]: The user may set a specific date and time for UPS shutdown.

[Weekly]: Set a specific day and time of the week for UPS shutdown.

[Daily]: Set a specific time of the day for UPS shutdown.

- 1. Click [Special], [Daily] or [Weekly] scheduled shutdown features to enter each setup menu.
- Enter the date and time to shut down the UPS. Please note that time is entered using 24Hr clock format (hh:mm).
- 3. Select [Never], [Immediately], [Same Day], [Next Day] for the UPS to recover power.
- 4. Click [Add] to add the item to the Schedule. Click [Cancel] to remove the item from the Schedule.
- 5. Applied settings are listed in [Schedule Log] menu.

Please Note: The management system allows only 10 scheduled settings.

[System] menu contains, [System Time] page [User Accounts] page and [Identification] page.

Cyber Power		PR2200
192.168.20.177		Logout
Monitoring	System Time	
Control	Date & Time Settings:	
System	Internal Date (M/D/Y): 02 / 15 / 2007 Internal Time (H:M:S): 16 : 48 : 00	
- System Time	Temperature Display: Odding	
- User Accounts	Apply Cand	
- Identification		
Network		
Events		
Summary		

[System Time] allows users to configure the internal time of the Network Management Card $\, \circ \,$

1. Enter the date and time and choose either Celsius or Fahrenheit for the temperature display.

2. Click [Apply] to activate the settings.

[User Accounts] sets up user accounts. The system allows one administrator and two device users to access the system. An administrator can access all of the management menus. A device user can only access [Monitoring], [Events], and [Summary]. Only one user at a time can enter into the web browser.

Logoul

- 1. Select [Administrator] / [Device User] and enter the User Name and Password.
- 2. Click [Apply]. Are steps 2 and 3 in the correct order?
- 3. Retype the password to confirm the password was keyed properly.

[Identification] assign the system's name, contact, and location of the system.

Cyber Power			PR2200
192.168.20.177			Logaul
Monitoring		System Identification	
Control	Identification Set		
× System	Name: Contact:	Cyber Viewer Administrator	
- System Time	Location:	Server Room	
+User Accounts	Apply Cincel		
-(Identification			
Network			
Events			
Summary			

[Network] menu contains [TCP/IP] page, [Access Control] page and [Trap Notification] page.

Cyber Power			PR2200
192.168.20.177	тср/1	IP Configuration	Logout
Monitoring Control	TCP/IP Settings:		
System	DHCP: System IP:	⊙Enable ○Disable 192.168.20.177	
Network	Subnet Mask: Default Gateway:	255.255.255.0 192.168.20.1	
(TCP/IP) Access Control	Web Port (80, 5000-65535):	80	
→ Trap Notification	1.000		
Events			
Summary			

[TCP/IP] This option allows you to enable or disable DHCP and define the IP Address, Subnet Mask, Default Gateway and Web Port when DHCP is disabled.

Click [Apply] to activate the settings, click [Cancel] to revert to previous settings.

[Access Control] allows you to select the NMS defined by the IP settings that can use the channel. Control the system data access through SNMP.

Cyber Power			PR2200
192.168.20.177 Monitoring		Access Control	
Control	Manager IP 0000	Community public	Permission ReifOdy
System Network	0.0.00 Apply Oneri	private	WanRod 🗸
- TEPEP			
- Trap Notification			
Events Summary			

- 1. Input the manager IP address. This address will limit the access to the NMS. The default value 0.0.0.0 or 255.255.255.255 allows access for all NMS.
- 2. Input the community (functions as password, maximum of 15 characters).
- 3. Select one of the permission options: [Read], [Write], or [Disable].
- 4. Click [Apply] to activate the settings, click [Cancel] to revert to previous inputs.

Definitions for Permission levels:

Read	The NMS can read data at any time, but can never write data.
Write	The NMS can read and write data at any time (provided there is not
	another user logged in).
Disabled	The NMS cannot use 'Read' or 'Write'.

[Trap Notification]: Identify NMS that will receive traps.

192.168.20.177		Tran No	tification	
Monitoring		Thap ito	Circultord	
Control	Name	Receiver IP	Community	Status
	Trap1 Name	192.168.20.10	public	Enable
System	Trap2 Name	192.168.20.20	public	Enable
Network	Trap3 Name	192.168.20.30	public	Enable
	Trap4 Name	192.168.20.40	private	Enable
TEPHD	Trap5 Name	192.168.20.50	private	Enable
Access Control	Add a new Trap	Receiver to notify.		
+ Trap Notification				NextPage
Events				
er ver me				
Summary				

CyberPower Network Management System

- 1. Input the receivers IP address. This address will identify the receiver of traps. The default value 0.0.0.0 or 255.255.255.255 defines all NMS as receivers.
- 2. Input the community (functioned as password, maximum of 15 characters).
- 3. Select one option [Enable] or [Disable].
- 4. Click [Apply] to activate the settings, click [Cancel] to revert to the previous settings.

Enable	The trap will be generated.
Disable	The trap will not be generated.

[Events] displays an event log for the UPS. The section contains [Event Log] page [Event Generation] page and [UPS Shutdown] page.

192.168.20.177					
Monitoring -	Event Log				
Control	Date(M/D/Y) Time(H:M:S)	Event Description		
e service de la	02/15/2007	17:06:51	UPS internal selftest passed.		
System	02/15/2007	17:07:18	Power failure, UPS transferred to backup mode.		
And the second se	02/15/2007	17:07:31	Power restored, return from backup mode.		
Network	02/15/2007	17:10:36	Power failure, UPS transfered to backup mode. UPS battery is low, soon to be exhausted.		
Events	02/15/2007 02/15/2007	17:10:38 17:10:40	The UPS has been turned off.		
	0674072007	17110140	The of a has been tarted and		
EventLog	#01		Delete the event log.		
-Event Generation					
UPS Shuldown					
Summary					

[Event Log] displays the Network Management Card events by date and time. More than 200 events can be displayed.

Red : Severe Brown : Warning Black : Information

[Event Generation]: There are three severity levels, Information, Warning, and Severe. Please refer to their definitions below. The User can assign which severity levels will be recorded in the event log and which severity levels will cause SNMP traps to be sent.

	Event General	tion		
	Event Generat	ion		
Receiver	Information	Warning	Severe	
Event Log	V	U	V	
SNMP Trap	2			
Apply Caucel				
	SNMP Trap	SNMP Trap	SNMP Trap	SNMP Trap

Information indicates an event that requires no action.

Warning indicates an event that does not require immediate attention, but this condition should be monitored.

Severe indicates an event that requires immediate attention.

- 1. Determine the severity levels and click the option buttons.
- 2. Click [Apply] to activate the settings.

[UPS Shutdown]: Configures UPS shutdown and PC safe shutdown times.

1. Low-Battery Duration: Time from a Low-Battery signal until load is shutdown.

2. Maximum Shutdown Time: The maximum time the UPS will wait before it shuts down in

response to a turnoff command.

3. Shutdown Delay: Time the UPS will wait before it shuts down in response to a turnoff

command.

Note:

In order to have the PCs connected to the UPS so that they can be shut down safely, add the IP address of the PCs into Trap Notification. (Reference to Page14.) Install "Power Panel Shutdown Service" software, and then assign the IP addresses to "Network Management Card"

Cyber Power)	PR2200
192.168.20.177		Logoul
Monitoring	UPS Shutdown	
Control	UPS Shutdown Time Settings	
System	Low Battery Duration Time: Commin(s)	
Network	Maximum Shutdown Time: 02 min(s) ONegotiation Now	
Events	Shutdown Delay Time: 🔯 min(s)	
+ Event Log	Apply Gmod	
- UPS Shutdown		
Summary		

[Summary] Displays the current UPS and CyberPower Network Management Card Status.

192.168.20.177			6			
	Summary					
Monitoring			1.175			
Control	UPS Status: UPS on line, no alarms present.					
System	System Status: Date: 02/15/2007, Thursday	Time: 16:38:57				
letwork	Name: Cyber Vlewer Contact: Administrator UpTime: 0 Day 2 Hours 29 Minutes	User: Administrator Location: Server Room Status: OK				
vents	MAC: 00-0C-15-80-34-56	Version: 2.300				
Summary						

Appendix 1 IP Address Settings of CyberPower Network Management Card

Overview

All devices on a computer network need to have an IP address. Each device's IP address is unique. The same address cannot be used twice. In order to assign an IP address to the CyberPower Network Management Card, first, you must determine the range of the available IP addresses, and then choose an unused IP address to assign to the Network Management Card. **PLEASE NOTE:** You may need to contact your network administrator to obtain an available IP address.

Procedures to find an IP address:

1. Locate the subnet of CyberPower Network Management Card.

One way to determine the range of possible IP addresses is to view the network configuration on a workstation. Click on [Start] and select [Run]. Type "command" into the open box and click [OK]. At the DOS Mode Prompt type "**ipconfig /all**" and press [Enter]. The computer will display network information as below:

Ethernet adapter
Connection-specific DNS Suffix....: xxxx.com
Description....: D-Link DE220 ISA PnP LAN adapter
Physical Address....: 00-80-C8-DA-7A-C0
DHCP Enabled...:: Yes
Autoconfiguration Enabled...: Yes
IP Address....: 192.168.20.102
Subnet Mask....: 255.255.255.0
Default Gateway...:: 192.168.20.1
DHCP Server...: 192.168.20.1
DNS Servers...: 211.20.71.202
168.95.1.1

2. Select an IP Address for CyberPower Network Management Card

Verify the IP Addresses for the computer and the Network Management Card belong to the same subnet. Refer to the above network information, the possible IP Address for the Network Management Card could be 192.168.20.* (* hereafter represents any number between 1 and 255). Similarly, if the Subnet Mask is 255.255.0.0, the IP Address for Network Management Card could be set up as 192.168.*.* to reach the same subnet with the computer.

To verify there is no other equipment connected to the network using the same IP Address, run "Ping 192.168.20.240" at the DOS Mode prompt when the IP Address you would like to set is 192.168.20.240. If the response is presented as below, the IP address is most likely not used and available for the CyberPower Network Management Card.

Pinging 192.168.20.240 with 32 bytes of data:

Request timed out. Request timed out. Request timed out. Request timed out.

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If the response is shown as below, the IP address is in use. Try another IP address until an available address is found.

Pinging 192.168.20.240 with 32 bytes of data: Reply from 192.168.20.240: bytes=32 time<10ms TTL=64 Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com