

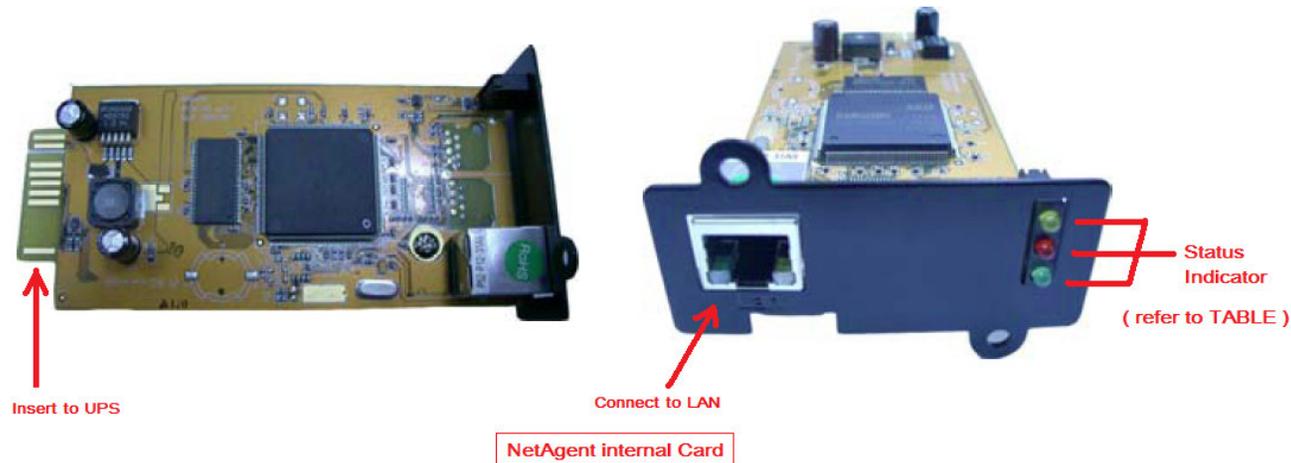
# CyberPower™

## QUICK INSTALLATION GUIDE Network Management Card RMCARD301

*The RMCARD301 Network Management Card provides for advanced ups management and configuration.*

### INSTALLATION GUIDE

Description:



LED Status indicator TABLE			
Yellow	Red	Green	Status
Off	Off	ON	Power ON
Flashing	ON	ON	System initial
ON	Off	ON	Normal operation
ON	Flashing	ON	No connection to UPS
Flashing	Flashing	ON	Writing data to flash memory

Green light : Power state  
Red light : Connection state with UPS

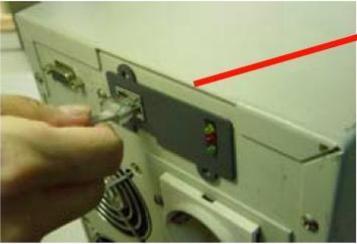
## Step 1. Hardware Installation

**RMCARD301**



**1** Insert the RMCARD301 into the UPS management card slot

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**2** Connect the network cable

- (1) Insert the RMCARD301 into the UPS management card slot
- (2) Connect the network cable

## Step 2. Configure the IP address and update the firmware.

### Section 1. Install Netility

- (1) Insert the NetAgent Utility CD to the CD-ROM driver and execute Netility.exe.
- (2) After the installation completes, there will be a 'Netility' group in Windows 'Start' -> 'Program Group'.



- (3) Click "Netility" to launch Netility and enter the main configuration screen.

### Section 2. Using Netility

The main Netility screen shows a list of all the RMCARD301s found on the network and shortcuts to configure, update, or launch the device.

The screenshot shows the Netility application window. On the left side, there are five numbered callouts with red arrows pointing to specific buttons:

- 1 Launch Device (points to the 'Launch Device' button)
- 2 Configure NetAgent UPS (points to the 'Configure' button)
- 3 Update NetAgent UPS Firmware (points to the 'Download Firmware' button)
- 4 About Netility (points to the 'About' button)
- 5 Search NetAgent UPS on network (points to the 'Refresh' button)

The main area of the application displays a table of discovered devices:

Device	Hardware	Firmware	IP Address
1918638915	HCV91	3.1.CV91	192.168.0.33
3925911940	HDK520	2.39.DK520	192.168.0.162
3925922463	HDK520	2.39.DK52...	192.168.0.167
3925934085	HSMP01	1.5.SMP.m...	192.168.0.204
3926120052	HCV73	2.54.CV73	192.168.0.32
3926120599	HCV73	2.54.CV73	192.168.0.188
3926120846	HCV73	2.53.CV73	192.168.0.176
3926151006	HCV74	2.53.CV74	192.168.0.21
3926669120	HPR08	2.39.PR08.a	192.168.0.154
3926718579	HRPM02	2.1.RPM	192.168.0.159
3927000016	HCV91	3.2.CV91.b...	192.168.0.171
3927000114	HCV91	3.1.CV91	192.168.0.30
4082655657	HCV73	2.54.CV73	192.168.0.175

(1) Launch Device

Click Launch Device or double click the RMCARD301 listed in the table to launch it.

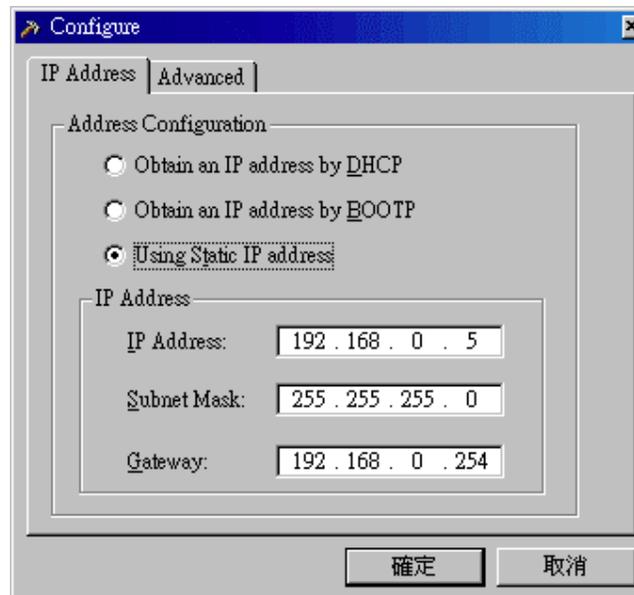
Enter the Account (Login Name) and Password (Login Password) to login. If an Account and Password have not been configured click "Apply" to login.

(2) Configure

Choose the RMCARD301 from the table, then click "Configure".

**IP Address: Set the IP address for the RMCARD301**

Select DHCP, BOOTP, or Static IP. For a static IP configure the IP address, subnet mask and gateway. After configuring the settings the RMCARD301 interface is accessible using a browser or telnet.



**Advanced: RMCARD301 Settings**

In order to ensure the secure management the RMCARD301 provides two security options to control access to the management interface.

## RMCARD301 Password

After setting the password all commands given to the RMCARD 301 by the Netility software will require the password. **(Make sure to remember the password. )**

## Management Protocol

The RMCARD301 provides HTTP (web) and Telnet access for management. For security purposes the port for each protocol can be configured.

1. On the advanced tab select HTTP and Telnet management and the port to use for each. The default ports for each protocol can be used.
2. If using a port other than the default for HTTP (80) or Telnet (23) the full IP address and port must be used to access the RMCARD301.

For example,

- (a) Set 81 as HTTP port number, then <http://192.168.0.177:81> must be typed at the web address to proceed to RMCARD301 web interface.
- (b) Set 24 as Telnet port number, then "192.168.0.177:24" must be typed at Telnet to proceed to the RMCARD301 Telnet interface.



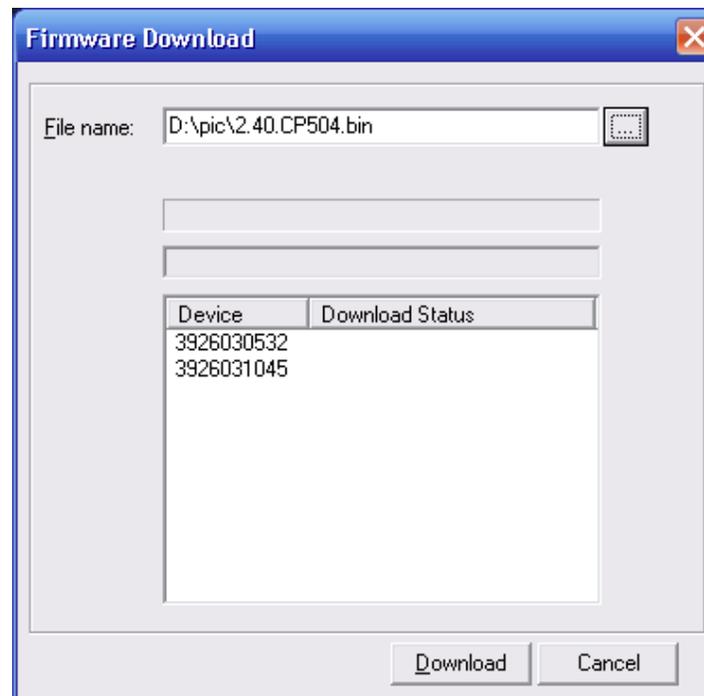
The screenshot shows a 'Configure' dialog box with two tabs: 'IP Address' and 'Advanced'. The 'Advanced' tab is selected. It contains two main sections: 'Netility Password' and 'Management Protocol'. In the 'Netility Password' section, there are two text input fields: 'New password:' and 'Confirm password:', both containing '\*\*\*\*'. In the 'Management Protocol' section, there are two checked checkboxes: 'Enable HTTP Function' and 'Enable Telnet Function'. Below the first checkbox is a text input field for 'HTTP port number (1 - 65534):' with the value '80'. Below the second checkbox is a text input field for 'Telnet port number (1 - 65534):' with the value '23'. At the bottom of the dialog box are two buttons: '確定' (OK) and '取消' (Cancel).

### (3) Download Firmware

The RMCARD301 offers a simple method to upgrade the firmware. To upgrade firmware, click **Download Firmware** from RMCARD301 Setup menu, click "Browser" select new firmware file (\*.bin) and press "Start". The RMCARD301's Red LED and Yellow LED will flash to indicate the firmware is upgrading. After the upgrade is complete the RMCARD301 will reboot. To upgrade multiple RMCARD301s with the same firmware, press and hold the Ctrl key and select the RMCARD301s to upgrade.

(To obtain the latest firmware please visit <http://www.megatec.com.tw> ) If upgrading multiple units, select the option for multiple NetAgent upgrades.

Note: The RMCARD301 provides a fail safe method to upgrade the firmware. If the upgrade is interrupted the RMCARD301 will revert to the previous firmware. If the upgrade fails simply repeat the upgrade process.



(4) About - Displays details about the current version of Netility.



(5) Refresh - Forces netility to scan the network for RMCARD301s.

Netility will automatically scan the network or the refresh button can be used to force another scan..



## ***RMCARD301 Web Management***

### **Section 1. Introduction**

After completing the RMCARD301 installation, you will now be able to go to RMCARD301 web interface to monitor and control UPS by inputting RMCARD301 IP address in a web browser.

- (1) Launch a web browser (Firefox or Internet Explorer)
- (2) Enter the RMCARD301 IP Address previously configured e.g. 192.168.0.177.



Enter the RMCARD301 IP address

- (3) On the first screen, enter the previously configured password. If no password has been configured press [ENTER].



RMCARD301 Login dialog

## Section 2. RMCARD301 NetAgent Web Interface

There are 4 main function categories on the initial screen.

2.1 Information

2.2 Configuration

2.3 Log Information

2.4 Help

Select the main category on the left and the subcategory. **When using NetAgent for the first time, please enter the [Configuration] category to set the necessary configurations.**

The screenshot displays the NetAgent web interface. The top header features the 'NetAgent' logo on the left and 'System Status' on the right. A left-hand navigation menu is organized into four main categories: Information, Configuration, Log Information, and Help. The 'Information' category is currently selected, showing sub-options like System Status, Basic Information, Current Status, Remote Control, and Meter/Chart. The main content area displays 'System Information' and 'Network Status' tables. A warning message is also present: 'Warning will be initiated 10 minute(s) before Scheduled Shutdown Event Send Email for Daily Report'. A 'help' button is located in the bottom right corner.

System Information			
Hardware Version	HCP504	UPS Last Self Test	--
Firmware Version	2.40.CP504	UPS Next Self Test	--
Serial Number	3925870401	UPS Critical Load	80 %
System Name	UPS Agent	UPS Critical Temperature	70.0 C
System Contact	Administrator	UPS Critical Capacity	10 %
Location	My Office		
System Time	2008/05/20 04:38:48		
Uptime	00:01:43		

Warning will be initiated 10 minute(s) before Scheduled Shutdown Event  
Send Email for Daily Report

Network Status			
MAC Address	00:03:EA:00:07:41	Primary DNS Server	168.95.1.1
Connection Type	100Mbps Full-Duplex	Secondary DNS Server	168.95.192.1
IP Address	192.168.3.23	Time Server	time.nist.gov
Subnet Mask	255.255.255.0	PPPoE IP	
Gateway	192.168.3.1		
Email Server			

## **2.1 Information**

Sub-Menu :

2.1.1 System Status

2.1.2 Basic Information

2.1.3 Current Status

2.1.4 Remote Control

2.1.5 Meter/Chart

### **2.1.1 System Status**

This screen displays the NetAgent system information and Network settings. Values shown here are either provided by NetAgent itself or they are user settings from the Configuration pages.

#### **System Information**

This section displays the NetAgent system information. Values in Hardware Version/Firmware Version/Serial Number/System Time are provided by NetAgent itself. Other values are user settings from the Configuration pages.

#### **Network Status**

This section displays NetAgent Network settings. The MAC address is provided by NetAgent. All other values in this section are user settings from the Configuration pages.

System Status			
<b>System Information</b>			
Hardware Version	HBP506	UPS Last Self Test	2008/04/17 11:38:15
Firmware Version	2.40.BP506	UPS Next Self Test	--
Serial Number	3925868544	UPS Critical Load	80 %
System Name	UPS Agent	UPS Critical Temperature	70.0 C
System Contact	Administrator	UPS Critical Capacity	10 %
Location	My Office		
System Time	2008/04/17 11:58:01		
Uptime	00:57:05		
Warning will be initiated 10 minute(s) before Scheduled Shutdown Event			
Send Email for Daily Report			
<b>Network Status</b>			
MAC Address	00:03:EA:00:00:00	Primary DNS Server	168.95.1.1
Connection Type	100Mbps Full-Duplex	Secondary DNS Server	168.95.192.1
IP Address	192.168.3.22	Time Server	time.nist.gov
Subnet Mask	255.255.255.0	PPPoE IP	
Gateway	192.168.3.1	PPP Server	10.0.0.1
Email Server		Login IP	10.0.0.2

### System Status

#### 2.1.2 Basic Information

This page displays basic information about the UPS. Values here are either provided by the UPS or they are user settings from the Configuration pages.

#### UPS Information

Information about UPS Manufacturer/UPS Firmware Version/UPS Model are provided by the UPS.

#### Battery Information

Values here are user settings from the Configuration pages.

#### Rating Information

Values here are provided by the UPS.

Basic Information	
<b>UPS Information</b>	
UPS Manufacturer	CyberPower
UPS Firmware Version	V1.0
UPS Model	
<b>Battery Information</b>	
Date of last battery replacement	
Number of Batteries	1
Battery Charge Voltage	2.267V
<b>Rating Information</b>	
Voltage Rating	115.0V
Frequency Rating	60.0Hz
Battery Voltage Rating	12.0V

[Help](#)

Basic Information

### 2.1.3 Current Status

This page displays the current UPS status. Users can choose an interval from the drop-down box to refresh the status readings.

#### UPS Status

This section displays the UPS power status. An abnormal status will be displayed in red when there is a power event.

#### Input Status

This section displays the UPS input status, including AC Status/Input Voltage/Input Frequency. Values here will be shown in red when an abnormal condition occurs.

#### Output Status

This section displays the UPS output status, including Output Voltage/Output Status/UPS Loading. Values here will be shown in red when an abnormal condition occurs.

#### Battery Status

This section displays the UPS Battery Status, including Temperature/Battery Status/Battery Capacity/Battery Voltage/Time on Battery. Values here will be shown in red when an abnormal condition occurs.

## Current Status

Refresh status every

**UPS Status**      UPS Normal

### Input Status

AC Status	Normal
Input Line Voltage	114.0 V
Input Max. Line Voltage	123.0 V
Input Min. Line Voltage	16.0 V
Input Frequency	59.9 Hz

### Output Status

Output Voltage	114.0 V
Output Status	Line-Interactive(Standby)
UPS load	0 %

### Battery Status

Temperature	31.0C (87.8F)
Battery Status	Battery Normal
Battery Capacity	100 %
Battery Voltage	13.7 V
Time on Battery	00:00:00

Current Status

### 2.1.4 Remote Control

This page provides test routines for the UPS. Select the specific test, then click on 'Apply' to execute it. (Please refer to the UPS manual for additional information on the individual UPS Test functions.)

If you are using a Contact Closure UPS, you will only be able to use the function ' Turn off UPS when AC Failed'.

#### Cancel Test

This function cancels the current test.

#### Turn off UPS when AC failed/Reboot UPS

Selecting ' Turn off UPS when AC failed' will turn off the UPS. You can reboot the UPS by selecting ' Reboot UPS'.

#### Put UPS in Sleep mode for \_\_ minutes/Wake up UPS

When the UPS is put into Sleep mode, it will not provide power. The UPS will provide power again after Sleep mode time is complete.

#### Reboot UPS

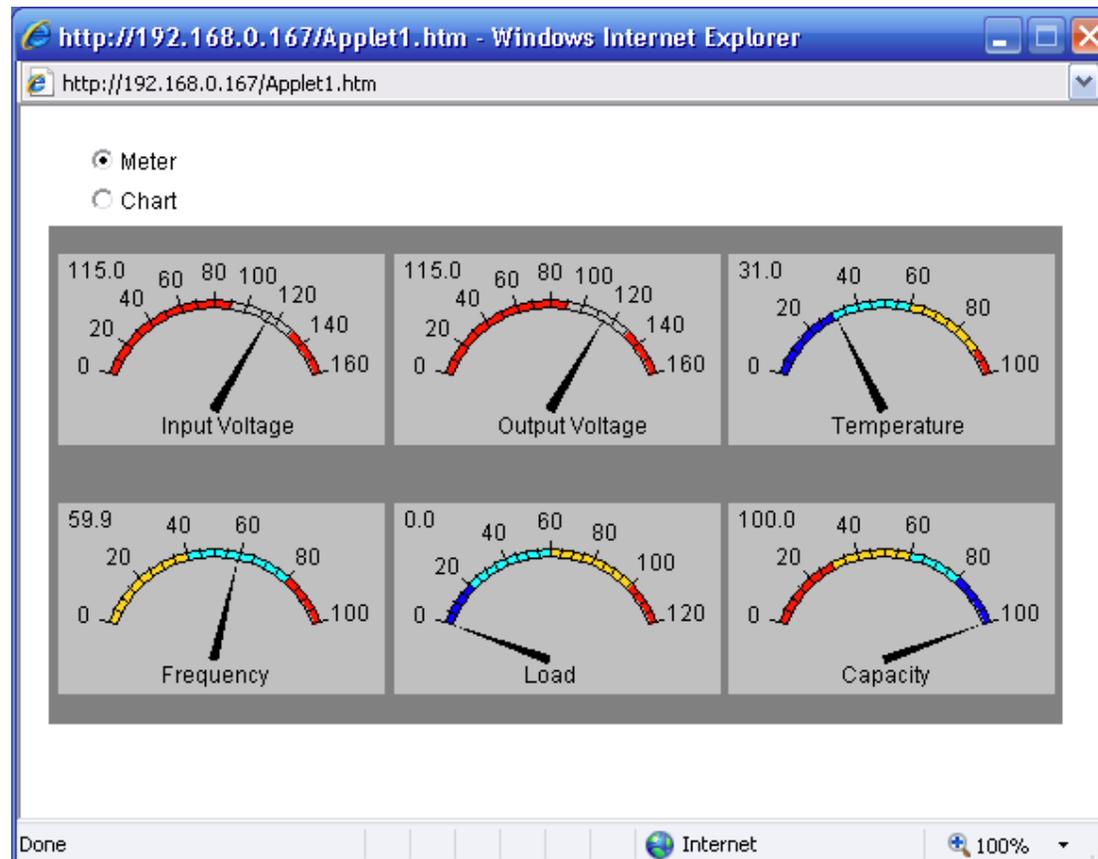
This will power off the UPS and restart it. Caution: The load will lose power..

Remote Control	
<b>UPS Testing</b>	
<input checked="" type="radio"/>	10-Second Test
<input type="radio"/>	Deep Battery Test for <input type="text" value="10"/> minute(s)
<input type="radio"/>	Test Until Battery Low
<input type="radio"/>	Cancel Test
<b>Miscellaneous</b>	
<input type="radio"/>	Turn off UPS when AC power Fails
<input type="radio"/>	Put UPS in Sleep mode for <input type="text" value="3"/> minute(s)
<input type="radio"/>	Wake up UPS
<input type="radio"/>	Reboot UPS
<input type="radio"/>	UPS Buzzer On/Off

Remote Control

## 2.1.5 Meter/Chart

This page displays temperature, capacity, load, voltage..etc of the UPS with using graphic meters or charts.



Meter/Chart