

MINUTE MAN[®]
Power Technologies
From Para Systems, Inc.

Remote Power Manager
RPM1521

User's Manual



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1. Product Introduction

The RPM1521 is an Internet ready SNMP device designed with integrated versatile functions including power control, remote web administration, event alerts into one single unit, which helps system administrators or IT personnel to monitor and control their connected equipment and take preventive measures when needed. Allows an administrator to remotely control the AC power for two connected devices, such as: servers, routers, modems, DVRs, security and telephone equipment.

The RPM1521 offers; easy set up, user-friendly communications and control methods. Easily connects to the LAN using normal Ethernet connection. Once connected and properly set up, the administrator can manage the AC power of the devices from anywhere in the world via a web browser, which greatly reduces the need for on-site service. Additional benefits from employing this intelligent power distribution system including:

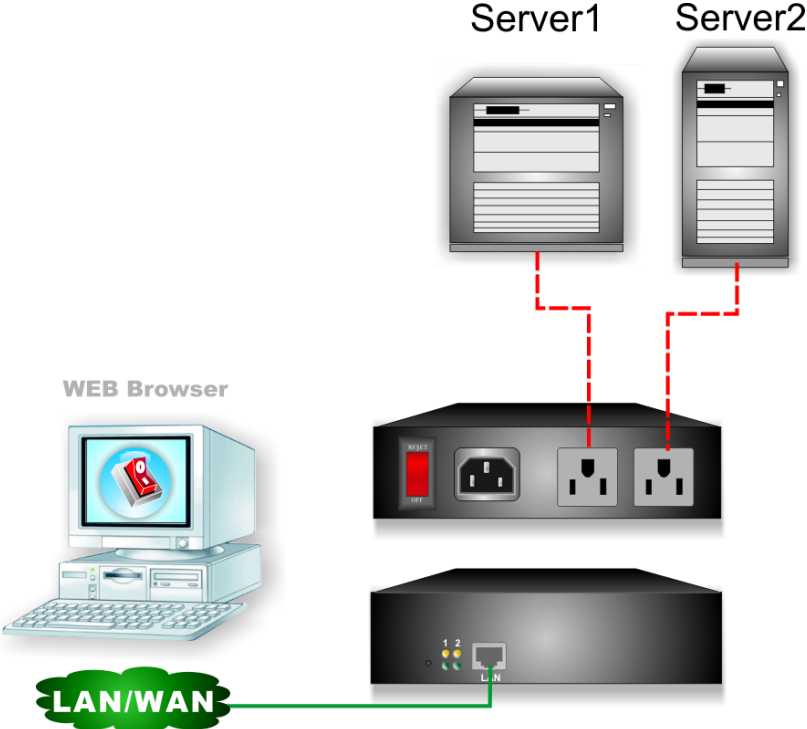
- Improves administrative efficiencies with remote power monitoring and control
- Reduces system down time without dispatching service personnel to remote locations
- Monitoring and management from anywhere in the world

1-1 Applications

- Monitoring and management of the computer equipment room.
- Intelligent power management of data center and networking equipments.
- Power scheduling of machinery equipment for the factory building.
- Home appliance power control and monitoring.
- Other power equipment management, scheduling and monitoring.

1-2 Power Control and Monitoring Diagram

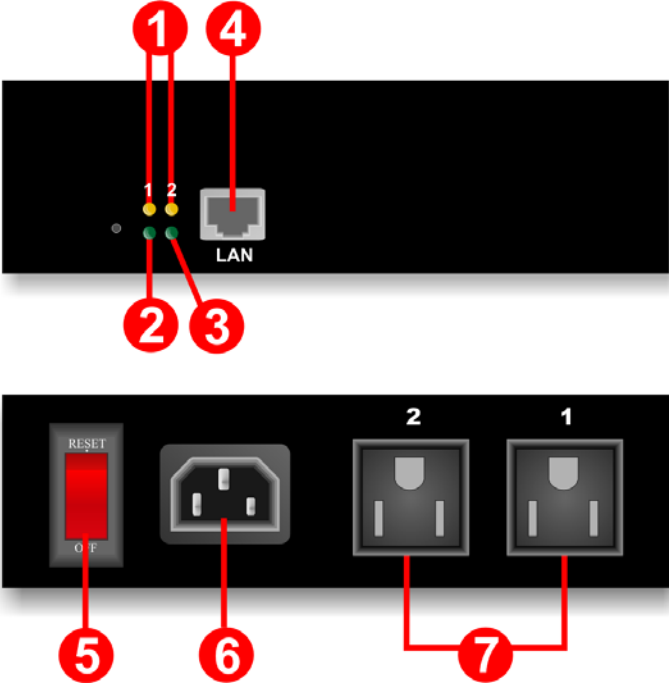
This is a typical application for the RPM1521.



1-3 Product Features

- IP-addressable Remote Power Manager with built-in web server and 2 power outlets.
- Control power equipment remotely via the Internet without the presence of service personnel.
- Manual power ON/OFF button to completely power down the RPM1521.
- Each AC power outlet can be independently switched ON/OFF, power cycled for immediate reboots or rebooted with timed delays, power cycle sequencing with assigned priority and power event scheduling.
- LEDs for power status and control mode indication.
- Supports Power Start sequencing to prevent all of the connected devices from starting simultaneously to limit the in-rush current to the RPM.
- Easy web setup for scheduling daily, weekly, monthly and yearly power operations on a specific outlet.
- The Auto-Ping feature will monitor and auto detect any failed network equipment and perform a timed reboot.
- IP filter/mask function helps manage user privileges and prevent unauthorized access to the control menu through the network.
- Instant email, SMS text messages and trap notification will be generated when power events occurred.
- Overload and connected equipment protection via the input circuit breaker.
- Rack mountable design with holes on the side of the metal enclosure for an optional rack-mounting kit.
- Provides Surge protection to eliminate disrupting and damaging effects of momentary voltage spikes or impulses from other power transients.

1-4 Control and Indicators



1	LED #1 is illuminated when output receptacle #1 is ON. LED #2 is illuminated when output receptacle #2 is ON.
2	Reset LED will flash when the Reset function is being performed.
3	Utility Power LED is illuminated when there is an acceptable AC voltage present.
4	RJ45 Ethernet Port for connecting to the network.
5	Power Switch & Breaker Protection.
6	Utility Power Inlet.
7	Output Receptacles.

1-5 Specifications

Number of Phase	Single (1Ø 2W + G)
Input & Output Voltage	100 - 120VAC
Input & Output Frequency	47 - 63Hz
Total Output Current (max)	12 Amp (at 120V)
Surge Energy Rating	1200 J
Input Protection	Re-settable Power Switch/Breaker
Operating Temperature	0 – 60°C (+32 - +140°F)
Storage Temperature	-15 to +45°C (+5 to +113°F)
Operating/Storage Humidity	0 - 95% Non-Condensing
Operating Elevation	0 to 3,000m (0 to +10,000 ft)
Storage Elevation	0 to 15,000m (0 to +50,000 ft)
Utility Power Inlet	IEC 320 C14
Output Receptacles	NEMA 5-15R
Net Dimensions (W x D x H)	7.17 x 4.90 x 1.70” 182 x 125 x 44mm
Net Weight	1.78 lbs 0.806 kgs
Shipping Dimensions (W x D x H)	9.6 x 8.5 x 3.1” 245 x 217 x 80mm
Shipping Weight	2.78 lbs 1.26 kgs
Regulatory	CE Certified

1-6 Package Contents



Remote Power Monitor * 1



CD Rom with User's Manual * 1

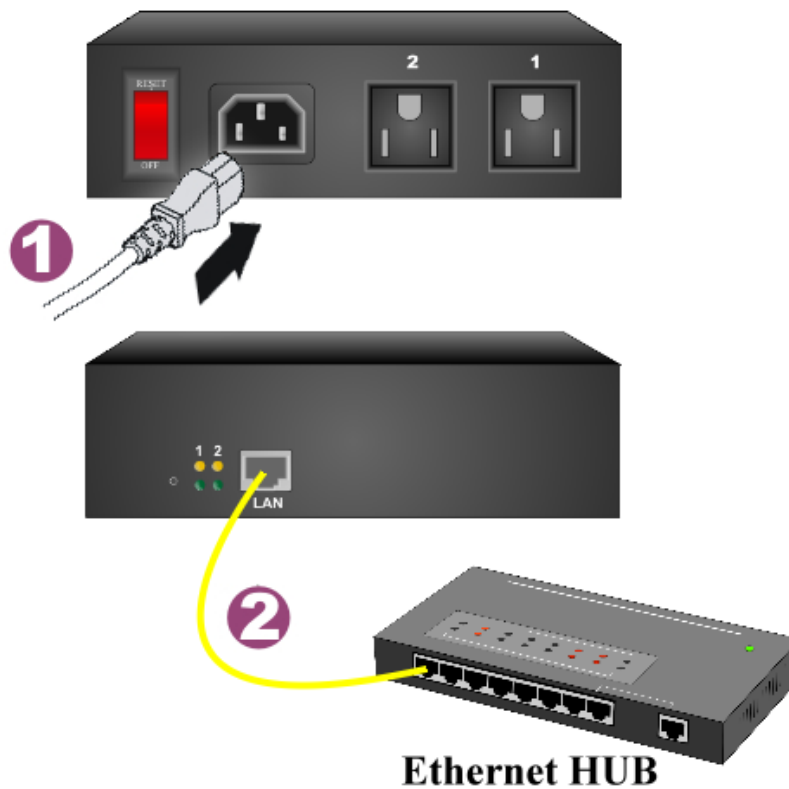


Power Cord * 1

2. Installation and Setup

2-1 Hardware Installation

1. Connect the power cord to the power inlet on the RPM and to the utility service.
2. Plug the equipment into the output receptacles.
3. Connect the Ethernet cable to the Ethernet port.
4. Turn the power switch to the ON position.



2-2 Setup-Procedure

The minimum requirement to operate the RPM1521 is to setup the IP Address, subnet mask, and the gateway. The IP Search Utility program supports most Windows Operating Systems (Windows NT4.0, 2000, 2003, XP, Vista).

There are two ways to perform the Setup-Procedure:

1. Open a web browser and input the default IP address. Then open the Network page and input the information.
2. Use the IP Search Utility program (on the CD).

The default settings are:

IP address: 192.168.1.10

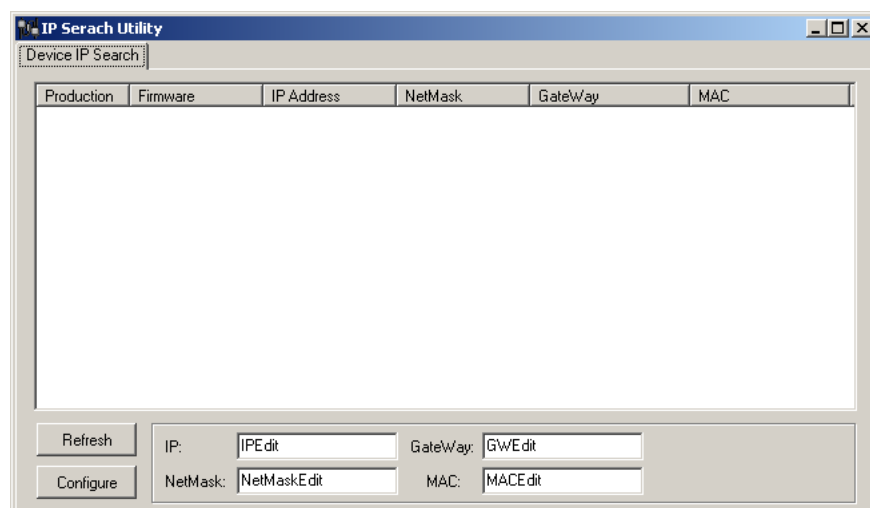
Subnet mask: 255.255.255.0

Gateway address: 192.168.1.1

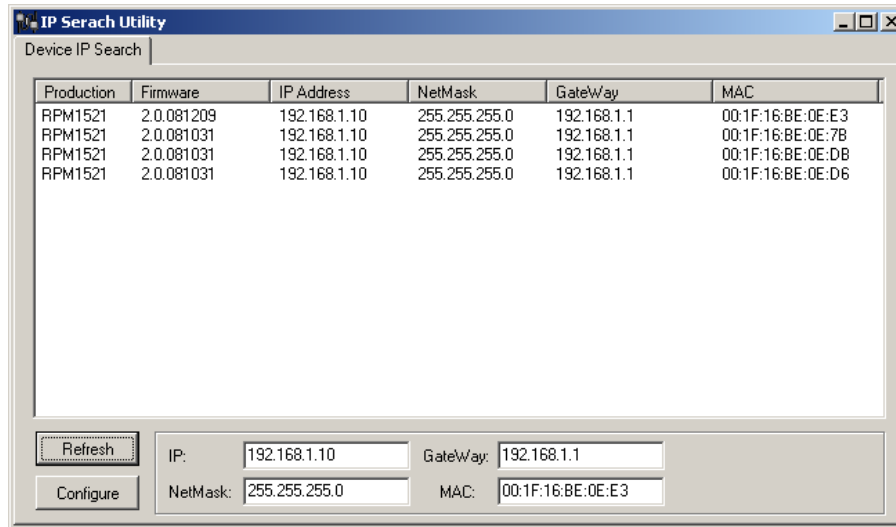
Account name: admin (lower case)

Password: admin (lower case)

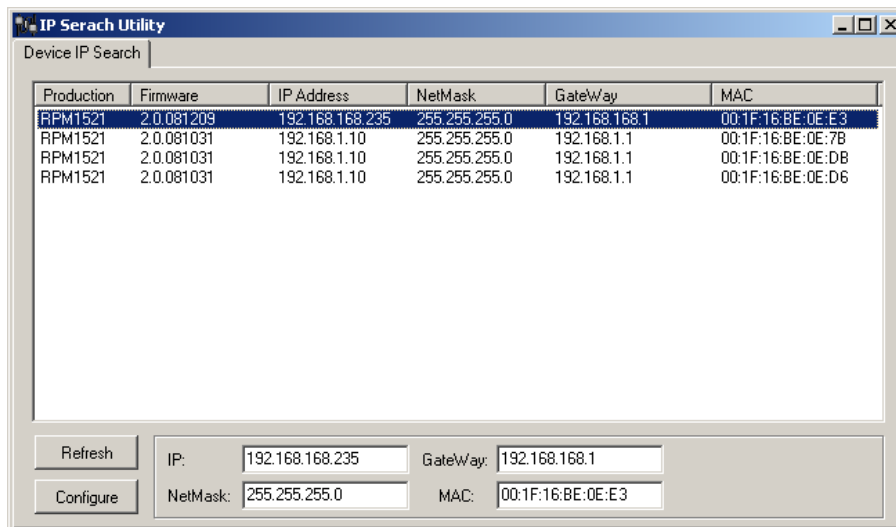
1. The workstation and the RPM1521 must be in the same LAN to perform the Setup-Procedure.
2. The Windows Firewall must be turned off to operate the IP Search Utility program.
3. From the Start menu select the Control Panel.
4. Select the Windows Firewall.
5. Select Off and then click the OK button.
6. Put the RPM1521's CD (provided) in the CD-ROM drive.
7. Launch the IP Search Utility program.



8. Click on the Refresh button to search for all of the RPM1521's in the LAN. A list of the RPM1521s will be displayed.



9. Click on the RPM1521. Configure the IP address, the Gateway and the NetMask (Subnet) and then click on the Configure button twice. You will see the IP address, the Gateway and the NetMask (Subnet) for the selected RPM1521 in the list change.



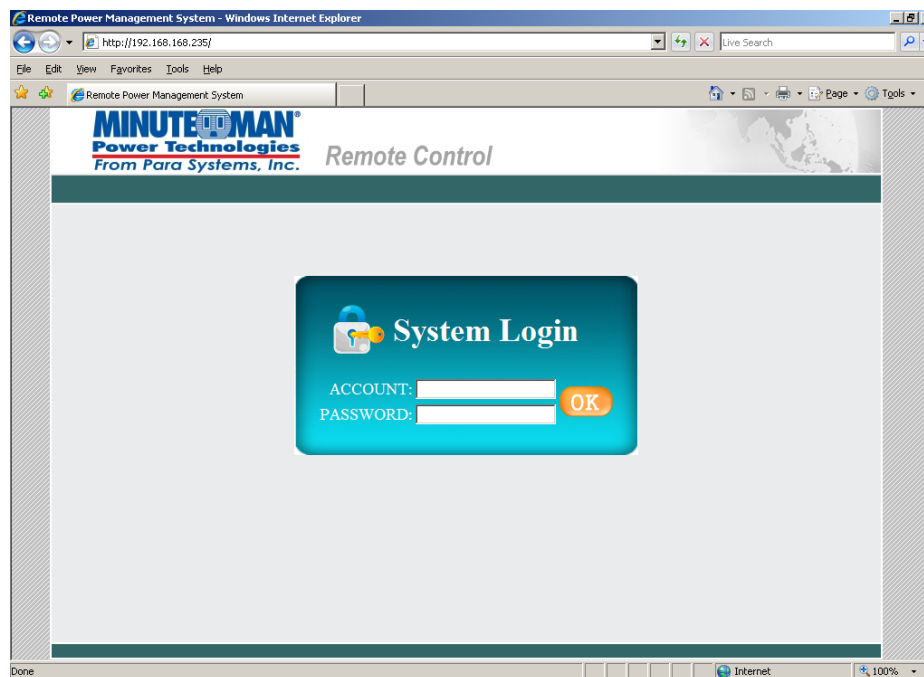
10. Repeat Step number 8 and 9 for all of the RPM1521 in the list.
11. Once all of the RPM1521s are setup, close the IP Search Utility program and turn the Windows Firewall back on.
12. This completes the initial Setup-Procedure of the RPM1521.
13. Now you are able to monitor and control the RPM1521 via a Web Browser.

3. Web Operation

3-1 System Login

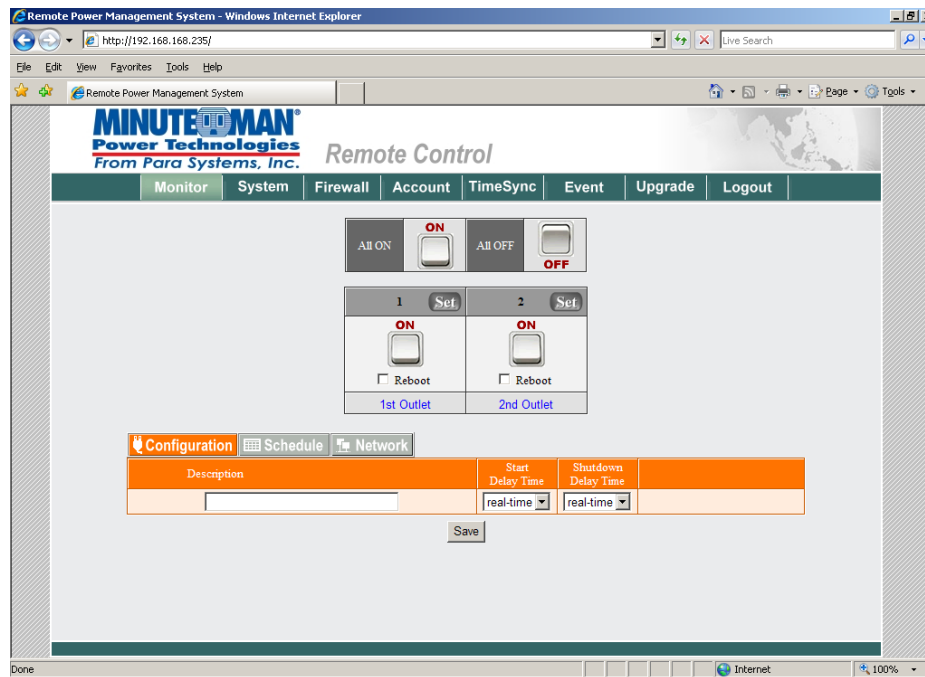
1. Open a Web Browser (Internet Explore, Firefox).
2. Enter the RPM1521's IP Address.
3. Enter the Account name (**admin**) and Password (**admin**).

NOTE: The Account name and the Password are lower case.

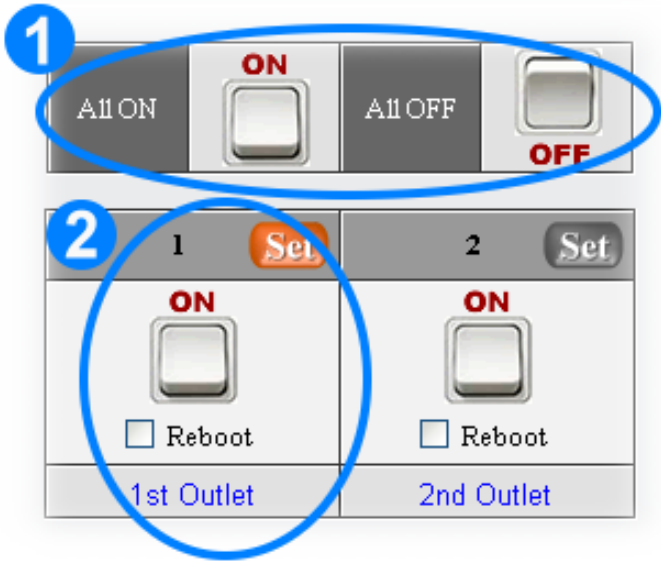


3-2 Monitor Tab

You can set up each individual outlet on the Monitor tab as illustrated in the following sections.



3-2-1 Power Switch Operation



1

Double clicking with the left mouse button on the ALL ON button will turn ON all of the outlets. Double clicking with the left mouse button on the ALL OFF button will turn OFF all of the outlets.

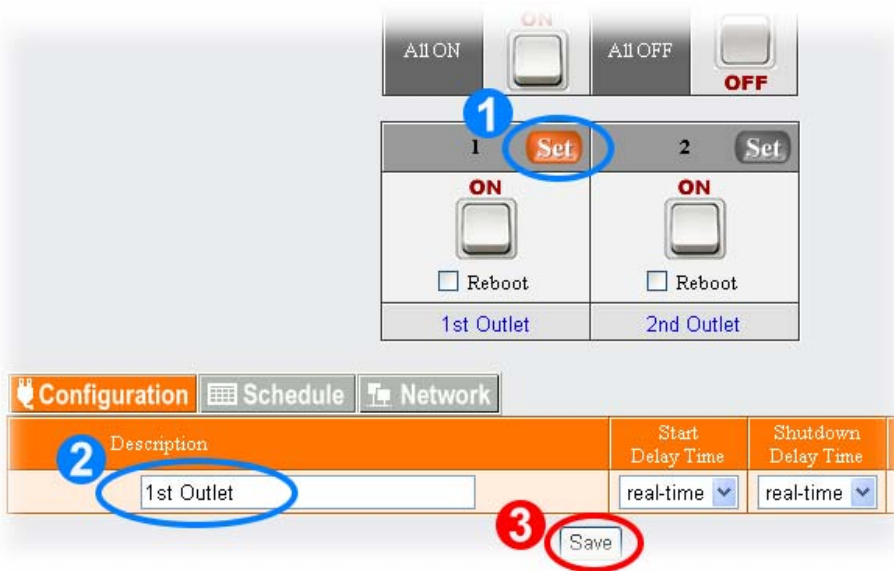
2

Double clicking with the left mouse button on one of the bottom buttons will turn ON that individual outlet or turn OFF that individual outlet. If you want to reboot the individual outlet check the Reboot box and then double click with the left mouse button on the bottom button to reboot the outlet.

Button Illustration:



3-2-2 Configuration



1

Set: Click on the Set button located on the top corner of the outlet to setup that individual outlet. When the Set button is orange, the outlet is ready to be configured.

2

Description: The users can assign a name to each individual outlet. This allows the system administrator and/or manager to easily distinguish between the equipment that is connected to the outlets.

Start Delay Time: Each outlet can be programmed to startup at different time intervals instead of both of them starting up at the same time.

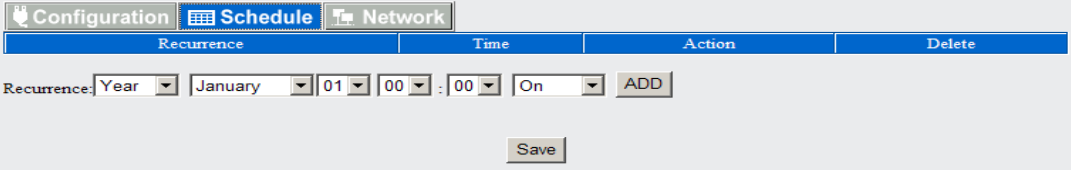
Shutdown Delay Time: Each outlet can be programmed to shutdown at different time intervals instead of shutting both of them down at the same time.

3

Save: Once the setup is complete click the Save button to save all of the changes.

3-2-3 Schedule

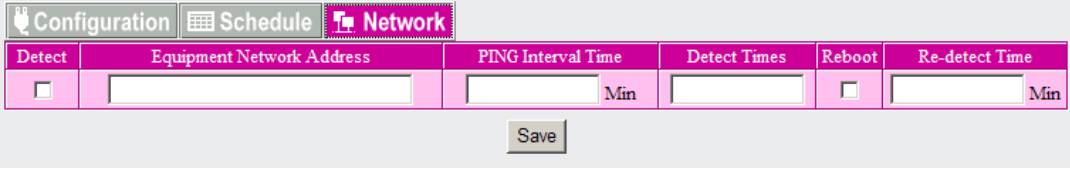
Click the Set button located on the top corner of the outlet to setup a Schedule for that individual outlet to turn ON/OFF or Reboot on a certain day at a specific time. When the Set button is orange, the outlet is ready to be configured.



- Recurrence:** An Action can be schedule to occur yearly, monthly, weekly or daily at a specific time for each individual outlet.
- Time:** Set the time (hours and minutes) when you want the Action to occur to an outlet.
- Action:** Set the action you want the outlet to perform, ON, OFF or Reboot.
- ADD:** Click the ADD button to add this action.
- Delete:** To delete a schedule, double-click on the “X”.
- Save:** Once the setup is complete click the Save button to save all of the changes.

3-2-4 Network

Click the Set button located on the top corner of the outlet to setup the Auto-Ping feature. The RPM1521 can be setup to ping an IP-addressable device and detect when that device has stopped communicating. If the Reboot action is selected the power to the connected device will be cycled OFF and then ON. After the preset time the Auto-Ping function will restart.



- Detect:** Check this box to enable the Auto-Ping function.
- Equipment Network Address:** Enter the IP address of the connected equipment.
- PING Interval Time:** Set the time Interval to PING the connected device.
- Detect Times:** If a device fails to respond to a ping continuously and exceeds the preset time, the RPM1521 will notify the selected personnel via email or SMS.
- Reboot:** Check this box to reboot the outlet for the failed connected device.
- Re-detect Time:** The time interval before restarting the Auto-Ping function after the connected device has been rebooted.
- Save:** Once the setup is complete click the Save button to save all of the changes.

3-3 System Tab

3-3-1 Network

The RPM1521 can be configured with a Static IP address or setup to use DHCP.

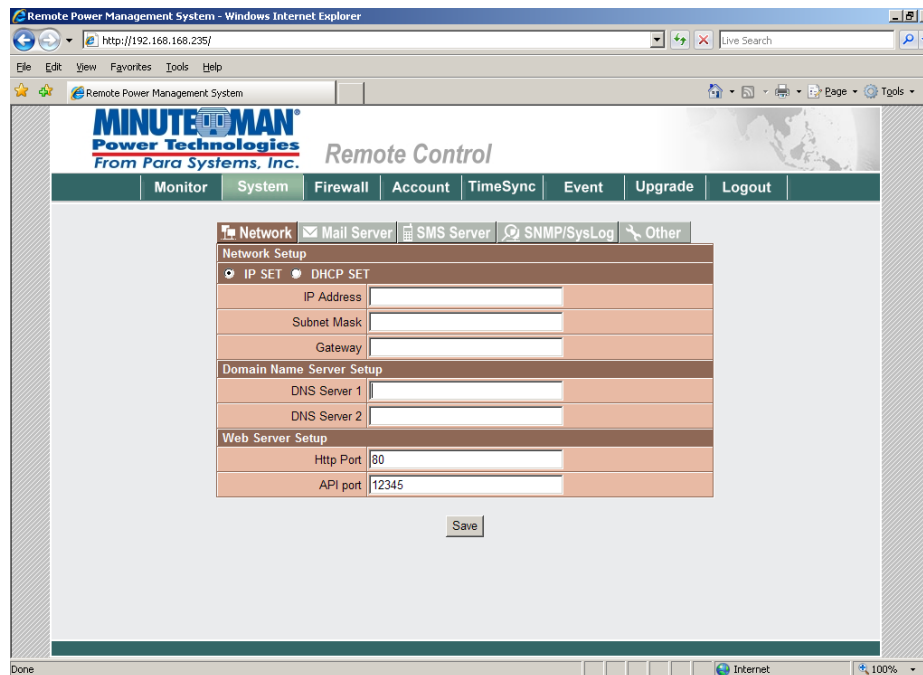
The default settings are:

Static IP address

IP address: 192.168.1.10

Subnet mask: 255.255.255.0

Gateway address: 192.168.1.1



IP Address: Enter the IP address.

Subnet Mask: Enter the Subnet Mask.

Gateway: Enter the Gateway address.

DNS Server 1: Enter your primary DNS server (if required).

DNS Server 2: Enter your secondary DNS server (if required).

Http Port: Assign the desired HTTP port (default is port 80) for connecting to the RPM1521 via a web browser. The HTTP port can be changed if so desired. An example would be HTTP port 8080. Enter the IP address followed by the new HHTTP port (http://192.168.1.10:8080).

API Port: The Application Program Interface Port allows the user to interface and control the RPM1521 with their own application program.

Save: Once the setup is complete click the Save button to save all of the changes.

3-3-2 Mail Server

This menu allows the administrator to configure the email setting to send notifications once an event has occurred.

The screenshot shows a web browser window titled "Remote Power Management System - Windows Internet Explorer" with the URL "http://192.168.168.235/". The page header includes the "MINUTEMAN Power Technologies From Para Systems, Inc." logo and the text "Remote Control". A navigation menu contains "Monitor", "System", "Firewall", "Account", "TimeSync", "Event", "Upgrade", and "Logout". Below this is a sub-menu with "Network", "Mail Server", "SMS Server", "SNMP/SysLog", and "Other". The "Mail Server" sub-menu is active, displaying the "Email Server Setup" form. The form fields are: SMTP Server Address (empty), SMTP Port (25), Sender Mail Address (empty), Mail Subject (RPM1521 Alarm), SMTP Auth (checkbox, unchecked), SMTP Account (empty), and SMTP Password (empty). There are "Mail Test" and "Save" buttons at the bottom of the form.

SMTP Server Address: Enter the Hostname or IP address of the SMTP Mail Server that will be used to send emails from the RPM1521. If entering a Hostname, you are also required to enter the DNS Address.

SMTP Port: Enter the port number for the SMTP server. The default port is 25.

Sender Mail Address: This must be a legitimate email address.

Mail Subject: When an event occurs the RPM1521 will send an email notification. The subject line can be setup to easily identify that device.

SMTP Auth: Check this box if the Mail Server requires authentication to send emails.

SMTP Account: Enter the account name if SMTP authentication is required.

SMTP Password: Enter the password if SMTP authentication is required.

Mail Test: This is used to verify that the email works properly.

Save: Once the setup is complete click the Save button to save all of the changes.

3-3-3 SMS Server

This menu allows the administrator to configure the SMS setting to send notifications once an event has occurred.

The screenshot shows a web browser window titled "Remote Power Management System - Windows Internet Explorer" with the URL "http://192.168.168.235/". The page header includes the "MINUTE MAN Power Technologies From Para Systems, Inc." logo and the text "Remote Control". A navigation menu contains "Monitor", "System", "Firewall", "Account", "TimeSync", "Event", "Upgrade", and "Logout". Below this is a sub-menu with "Network", "Mail Server", "SMS Server" (highlighted), "SNMP/SysLog", and "Other". The "Message Server Setup" form contains the following fields:

Server Address	<input type="text"/>
Port	2500
Equipment Name	RPM1521 Alarm
Account	<input type="text"/>
Password	<input type="password"/>
Send SMS	<input type="checkbox"/>

Below the form are two buttons: "SMS Test" and "Save".

Server Address: Enter the SMS server address.

Port: Enter the port number for the SMS server. The default value is 2500.

Equipment Name: When an event occurs the RPM1521 will send an SMS notification. The equipment name will identify the device.

Account: Enter the account name if required.

Password: Enter the password if required.

Send SMS: Check this box if SMS Server requires authentication to send messages.

SMS Test: This is used to verify that the SMS works properly.

Save: Once the setup is complete click the Save button to save all of the changes.

3-3-4 SNMP/SysLog

This menu allows the administrator to configure the RPM1521 to send SNMP Traps and System Logs to different Network Management Stations (NMS).

The screenshot shows the 'Remote Power Management System' web interface in Internet Explorer. The page title is 'Remote Control' and the logo is 'MINUTE MAN Power Technologies From Para Systems, Inc.'. The navigation menu includes Monitor, System, Firewall, Account, TimeSync, Event, Upgrade, and Logout. The 'SNMP/SysLog' tab is selected. The configuration form is as follows:

MIB System			
System Name	RPM1521 Remote Power Control		
System Contact	Administrator		
System Location	Office		
TRAP Notification			
Receiver IP Address	Receiver Port	Community	Enabled
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
SNMP Test			
SYSLOG			
Syslog Server Address	Syslog Server Port	Enabled	
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	
SYSLOG Test			
Save			

System Name: Enter the name of the SNMP device.

System Contact: Enter the name of the System Administrator.

System Location: Enter the location of the SNMP device.

Receiver IP Address: The IP Address of the NMS of where the Traps should be sent.

Receiver Port: The port that will be used to receive the Traps. The default value is 162.

Community: Low-level password of the associated IP address with the access type set by the administrator.

Enabled: Enables the SNMP Traps to be sent.

SNMP Test: This is used to verify that the Trap notification works properly.

Syslog Server Address: The IP Address of the Server to which the System Logs should be sent.

Syslog Server Port: The port that will be used to receive the System Logs.

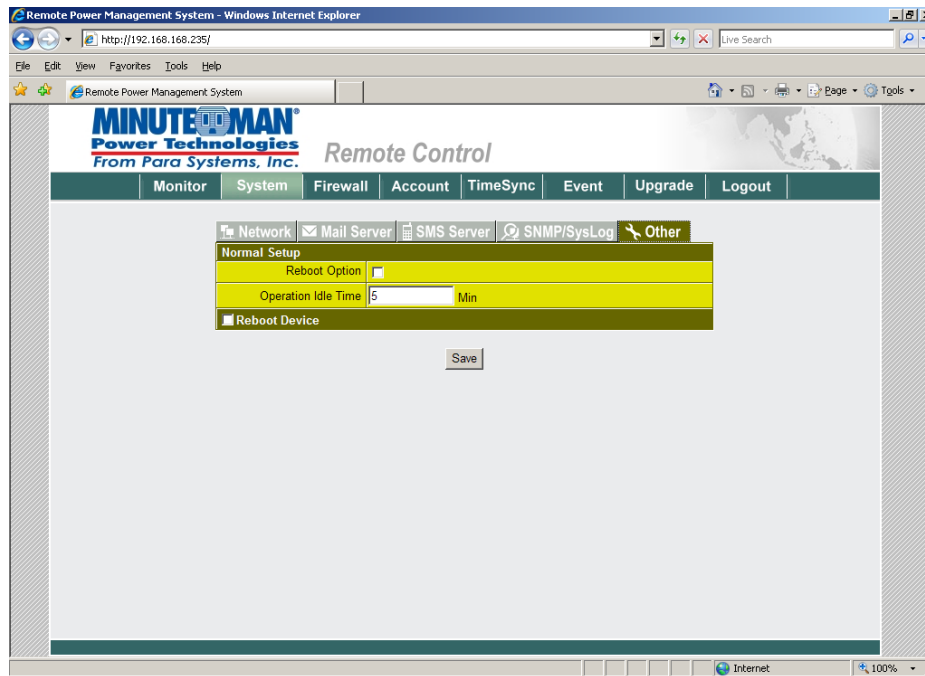
Enabled: Enables the System Logs to be sent.

SYSLOG Test: This is used to verify that the SYSLOG works properly.

Save: Once the setup is complete click the Save button to save all of the changes.

3-3-5 Other

This menu allows the administrator to configure the outlets to reboot, set the operational time, and perform an immediate reboot of the outlets.



Reboot Option: This allows the user to reboot the outlet instead of just turning the outlet ON/OFF. The Reboot check box on the Monitor screen will be checked when this option is selected.

Operational Idle Time: The time interval between no activity and when the user will be logged out.

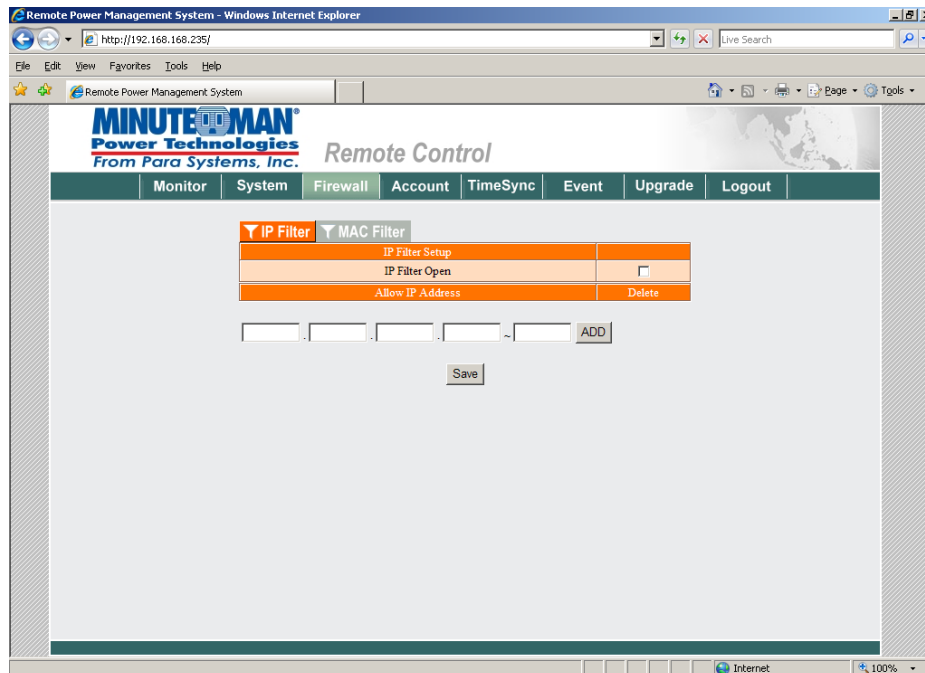
Reboot Device: Selecting this option will immediately reboot the outlets.

Save: Once the setup is complete click the Save button to save all of the changes.

3-4 Firewall Tab

3-4-1 IP Filter

This menu allows the administrator to configure the users privileges and prevent unauthorized access to the RPM1521 through the network.



Allow IP Address: The first four sections are the beginning of the IP range. The last section is the ending of the IP range, which the administrator has given specific rights to certain users to access the RPM1521. Example to authorize the IP ranges of 192.168.1.100 to 192.168.1.200, input 192.168.1.100 in the first four sections and then input 200 in the last section. If you only want to authorize one IP address, then input 192.168.1.100 in the first four sections and then input 100 in the last section. The default IP address range is the IP address of the computer that you initially use to view the RPM1521.

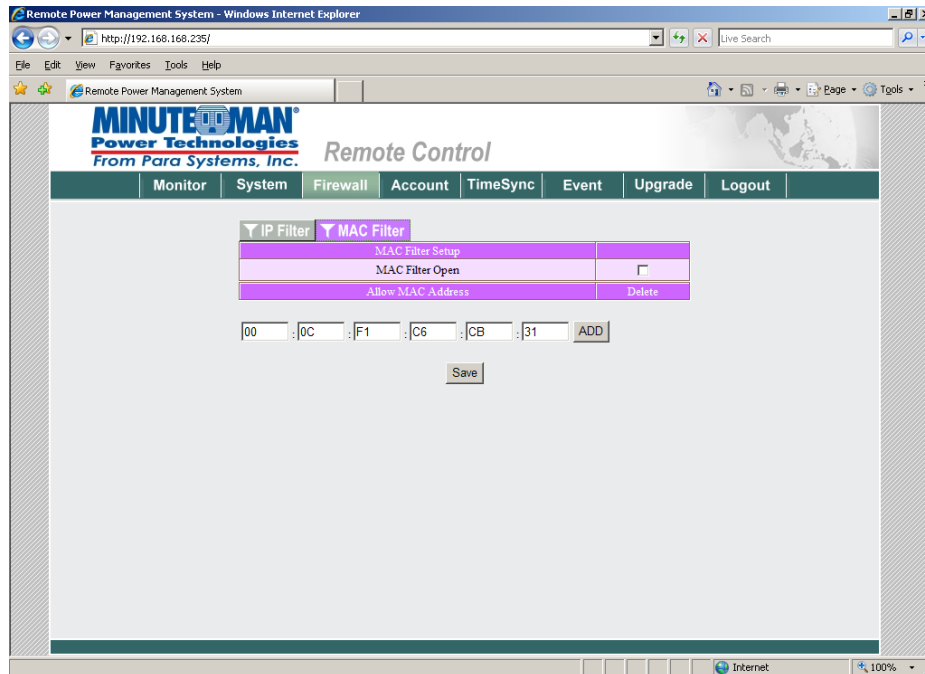
ADD: Click the ADD button to add this action.

Delete: To delete a specific IP address click on the "X".

Save: Once the setup is complete click the Save button to save all of the changes.

3-4-2 MAC Filter

This menu allows the administrator to configure the users privileges and prevent unauthorized access to the RPM1521 through the network.



Allow MAC Address: The administrator can give specific rights to certain users to access the RPM1521. Enter the MAC address of the user that you want to have access to the RPM1521. The default MAC address is the MAC address of the computer that you initially use to setup the RPM1521.

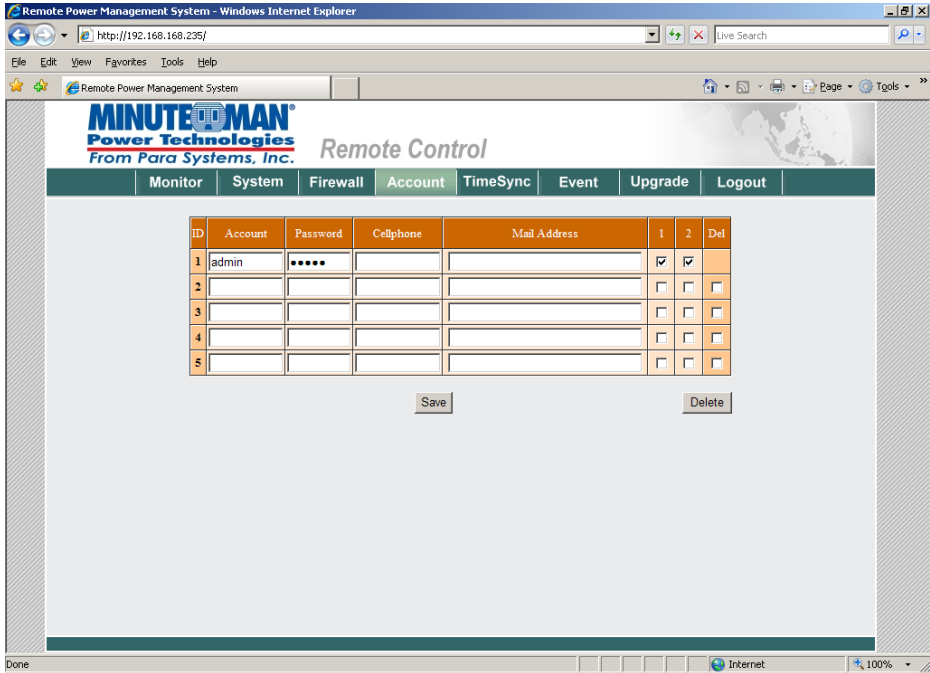
ADD: Click the ADD button to add this action.

Delete: To delete a specific MAC address click on the "X".

Save: Once the setup is complete click the Save button to save all of the changes.

3-5 Account Tab

This menu allows the administrator to setup authorized user accounts and other privileges. The administrator can assign specific access levels for each user account. Example: The administrator can assign user “A” to have access to outlet number 1 and receive email notifications when an event occurs to that specific outlet.



- Account:** Enter the user id for each user account.
- Password:** Enter the password for each user account.
- Cell phone:** Enter the contact phone number of the user that will receive the SMS text message once an event has occurred.
- Mail Address:** Enter the contact email address of the user that will receive the email notification once an event has occurred.
- Delete:** Check the delete box and then click on the Delete button to delete this user account, you must press the Save button to save the changes.
- Save:** Once the setup is complete click the Save button to save all of the changes.

3-6 TimeSync Tab

This menu allows the administrator to set the date and time for the RPM1521.

The screenshot displays the 'TimeSync' configuration page in a web browser. The page title is 'Remote Power Management System - Windows Internet Explorer'. The browser address bar shows 'http://192.168.168.235/'. The page header includes the 'MINUTE MAN' logo and 'Power Technologies From Para Systems, Inc. Remote Control'. A navigation menu contains 'Monitor', 'System', 'Firewall', 'Account', 'TimeSync', 'Event', 'Upgrade', and 'Logout'. The main content area is titled 'Equipment Time' and contains the following fields:

Equipment Time	
Equipment Date (mm-dd-yyyy)	11-03-2008
Equipment Time (hh:mm:ss)	16:09:41

Below this is the 'System Time' section with three radio buttons:

- Sync with PC

PC Date (mm-dd-yyyy)	11-03-2008
PC Time (hh:mm:ss)	15:09:49
- Sync with NTP Server

NTP Server Address	time.stdtime.gov.tw	New
--------------------	---------------------	-----
- Manual Setup

Date (mm-dd-yyyy)	11-03-2008
Time (hh:mm:ss)	15:09:47

The 'Time Zone Setup' section shows:

Time Zone	GMT	+08	:00
-----------	-----	-----	-----

A 'Save' button is located at the bottom of the form.

Equipment Date: Displays the date. This field is not editable.

Equipment Time: Displays the time in 24-hour format. This field is not editable.

Sync with PC: Check the Sync with PC button to synchronize the RPM1521's date and time with the PC.

PC Date: The current PC system date.

PC Time: The current PC system time.

Sync with NTP Server: Check the Sync with NTP Server button to synchronize the RPM1521's date and time with a NTP server.

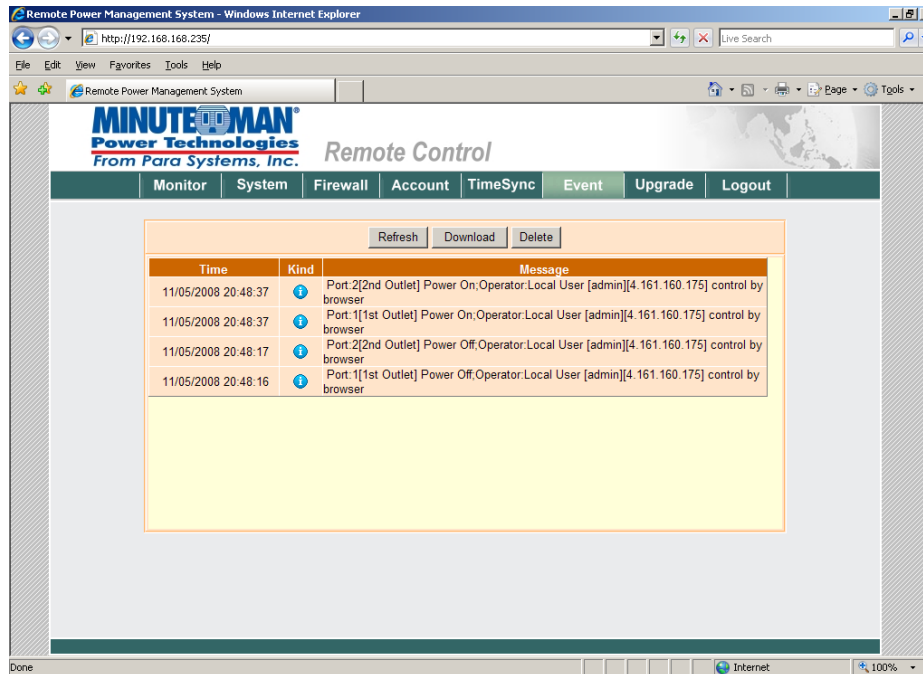
NTP Server Address: There is a list of some of the available NTP servers. Select the desired NTP server and then click Save. If your desired NTP server is not on the list, click on the New button and then enter the NTP server address, then click OK.

Manual Setup: Check the Manual Setup button to manually setup the date and time.

Save: Once the setup is complete click the Save button to save all of the changes.

3-7 Event Tab

This menu displays the events that have occurred with the RPM1521.



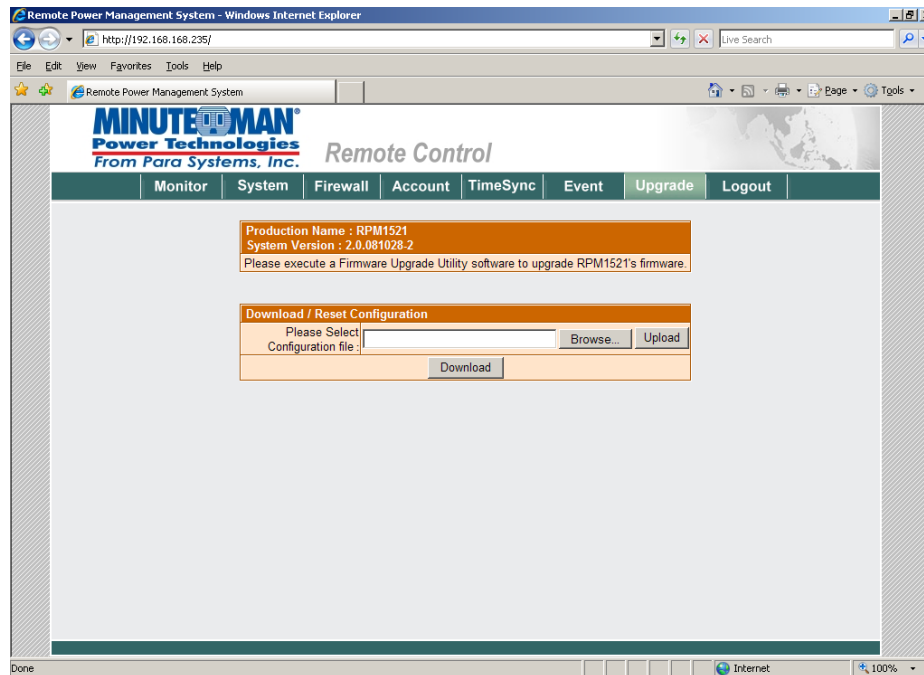
Refresh: Click on the Refresh button to refresh the screen.

Download: Click on the Download button to save the event log information. The event log is saved in .txt format.

Delete: Click on the Delete button to delete the Event logs.

3-8 Upgrade Tab

This menu allows the administrator to download the configuration (settings) of one RPM1521 and then upload it to another RPM1521.



The Download Configuration procedure:

1. Click on the Download button.
2. Select the location to save the file. The download file is saved in a .bin format.

The Upload Configuration procedure:

1. Click on the Browse button.
2. Select the cfg.bin file.
3. Click on the Open button.
4. Click on the Upload button.
5. Once the Upload is complete the RPM1521 will automatically reboot.

3-9 Logout Tab

Click on the Logout Tab to logout of the RPM1521.

Appendix

A1 Firmware Upgrade

This menu allows the administrator to upgrade the firmware of the RPM1521.

The screenshot shows a Windows-style dialog box titled "Firmware Upgrade". It contains the following elements:

- IP:** A text box containing "192.168.168.235" and a "GetVersion" button to its right.
- Production Data:** A section with five text boxes: "Production Name" (RPM1521), "IP Address" (192.168.168.235), "Subnet Mask" (255.255.255.0), "MAC Address" (00:1F:16:BE:0E:5F), and "Current Firmware Version" (2.0.081028).
- Firmware File Data:** A section with three text boxes: "File Type" (System), "Production Name" (RPM1521), and "Firmware Version" (2.0.081028j).
- Firmware File:** A text box containing a file path and a browse button (...).
- PassWord:** A text box with masked characters (xxxxxx).
- Buttons:** "Reboot", "Upgrade", and "Cancel" buttons.
- Progress Bar:** A section titled "UpDate Progress" with a progress bar and the text "UpDate Progress[0%]..."

Firmware Upgrade Procedure:

1. Open the firmware_upgrade.exe program located on the RPM1521 CD.
2. Input the IP Address of the RPM1521.
3. Click on the GetVersion button.
4. Click on the browse (...) button to search for the new firmware file (.bin).
5. Input the password (default is admin).

A2 Reset to Default

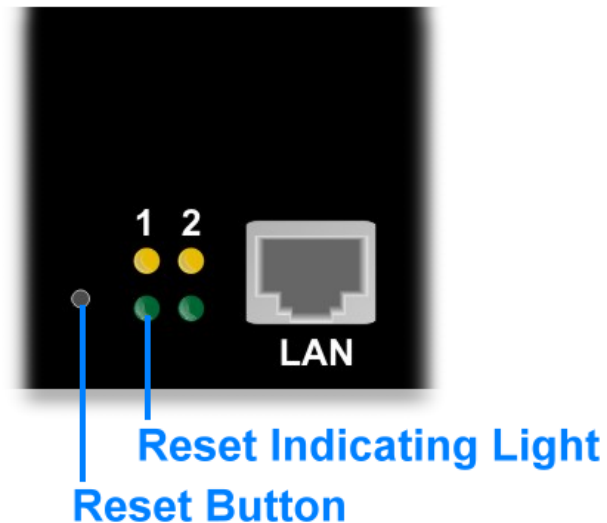
If you forgot the password and/or the user name the RPM1521 can be reset back to the manufacturer's default setting.

The Reset button is located in the small hole next to the Reset indicating light. Insert a pointed object like a paper clip into this hole. Gently push and hold the reset button for at least 3-seconds, then release the reset button.

The IP address will be reset back to **192.168.1.10**

The user name and password will be reset back to **admin**.

All of the other setting will be unchanged.



A3 Obtaining Technical Assistance

For Technical Support on the Web, please visit the Support section of our Web site or visit our online Discussion Forum. In order to diagnose the problem you are having, our technicians need the following information from you.

Installation Site:

Company Name: _____

Address: _____

City: _____ State: _____ ZIP code: _____

Contact Person's Name: _____

Phone Number: _____

If you are a consultant,

Consultant Name: _____

Phone Number: _____ Fax Number: _____

RPM:

Model Name/Number: _____

Serial Number: _____

NMS name and revision number: _____

What are the symptoms?

Please have the information listed above ready when you contact us.

Contact Technical Support By:

Phone: 1-800-238-7272 / 1-972-446-7363

Fax: 1-972-446-9011

Web: www.minutemanups.com/support/index.php (Technical Support)
www.minutemanups.com/phpBB2/index.php (Discussion Board)
www.minutemanups.com (Home Page)

A4 Limited Product Warranty

Para Systems Inc. (Para Systems) warrants this equipment, when properly applied and operated within specified conditions, against faulty materials or workmanship for a period of three years from the date of original purchase by the end user. For equipment sites within the United States and Canada, this warranty covers repair or replacement of defective equipment at the discretion of Para Systems. Repair will be from the nearest authorized service center. Replacement parts and warranty labor will be borne by Para Systems. For equipment located outside of the United States and Canada, Para Systems only covers faulty parts. Para Systems products repaired or replaced pursuant to this warranty shall be warranted for the remaining portion of the warranty that applies to the original product. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase.

The warranty shall be void if (a) the equipment is damaged by the customer, is improperly used, is subjected to an adverse operating environment, or is operated outside the limits of its electrical specifications; (b) the equipment is repaired or modified by anyone other than Para Systems or Para Systems-approved personnel; or (c) has been used in a manner contrary to the product's operating manual or other written instructions.

Any technical advice furnished before or after delivery in regard to use or application of Para Systems' equipment is furnished without charge and on the basis that it represents Para Systems' best judgment under the circumstances, but it is used at the recipient's sole risk.

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EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL PARA SYSTEMS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Specifically, Para Systems is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, cost of substitutes, claims by third parties, or otherwise. The sole and exclusive remedy for breach of any warranty, expressed or implied, concerning Para Systems' products and the only obligation of Para Systems hereunder, shall be the repair or replacement of defective equipment, components, or parts; or, at Para Systems' option, refund of the purchase price or substitution with an equivalent replacement product. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.