USER MANUAL UPS SERIES NETWORK INTERFACE CARD UPS-IPCARD



Middle Atlantic Products



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INTRODUCTION

Overview

The Middle Atlantic Network Interface Card allows for remote monitoring and control of a UPS attached to 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. Simply use a web browser such as Internet Explorer or Firefox to access your UPS. Servers and workstations can be protected by the UPS utilizing the Power Manager to gracefully shutdown when signaled by the Network Interface Card.

Features

- Real time UPS monitoring
- Remote management and configuration of UPS via Web Browser or NMS
- · Auto-shutdown to protect servers/workstations from data lose due to power failure
- Schedule shutdown/start-up/reboot of the UPS via remote control
- · Event logging to trace UPS operational history
- Data logging for analyzing power conditions
- Event notification via email and SNMP traps
- Support TCP/IP, UDP, SNMP/HTTP, NTP, DNS, SMTP protocol
- SNMP MIB provided
- Quick installation and user friendly interface
- User upgradeable firmware via FTP
- Security management provided

System Requirements

- A computer with a Windows or Linux Operating System (for optional Power Manager Client)
- An Ethernet connection to an existing network
- NMS (Network Management Station) compliant with SNMP (for optional NMS management)

APPLICATION



UNPACKING

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

- Middle Atlantic Network Interface Card.
- Middle Atlantic Products Power Manager CD with software and user manuals.

INSTALLATION GUIDE

Step 1 - Hardware Installation

1) Turn off the UPS before removing the expansion port cover on the UPS.

2)Remove the two retaining screws from the expansion port cover and remove the cover.

3) Install the Middle Atlantic UPS-IPCARD into the expansion port.

4)Re-install and tighten the retaining screws.

5)Connect the Ethernet cable to the LAN port on the Middle Atlantic UPS-IPCARD.

6)Turn on the UPS.





Definitions for LED Indicators

Link LED color	Condition
	The Network Management Card is not
Off	connected to the Network/or the Network
	Interface Card Power is off.
	The Network Interface Card is connected to
	the Network.
RX/TX LED	
color	
Off	The Network Interface Card power is off.
On(Green)	The Network Interface Card power is on.
Flashing	 Receiving/transmitting data packet.
riasining	- Reset finished.

Step 2 - Configure the IP address for the Middle Atlantic Network Interface Card.

Method 1: Using the Middle Atlantic Power Device Network Utility Tool

- Install the Middle Atlantic Power Device Network Utility Tool from the included CD. It is located on the CD in the \software folder. Double click the "Middle Atlantic UPS-IPCARD Setup Utility" installation file, "MAP_SNMP_Setup.msi" to begin the installation.
- After installation is complete, run the "Middle Atlantic UPS-IPCARD Setup Utility" program. Under "All Programs", select "Middle Atlantic UPS-IPCARD Setup Utility."
- The main dialog of the "Middle Atlantic UPS-IPCARD Setup Utility" program is shown in Figure
 The configuration tool will display all Middle Atlantic network cards of present on the same network. The "Refresh" button is used to search the entire local network for SNMP cards.

Tools Help								
wer Devices								
IAC Address	IP Address	Subnet Mask	Gateway	DHCP	Name	Location	Up Time	Versio
00-0C-15-00-0B-59	192.168.8.48	255.255.255.0	192.168.8.1	Enable	UPS-IPCARD		9m 35s	0.9.5
00-0C-15-00-0B-50	192.168.8.8	255.255.255.0	192.168.8.1	Enable	UPS-IPCARD		169h 15m 58s	0.9.4

Figure 1. The main window of the "Middle Atlantic UPS-IPCARD Setup Utility" program.

- 4) Select the SNMP card you are setting up. Click on the Tools menu and select "Device Setup" or double click the SNMP card you want to configure.
- 5) You can modify the IP Address, Subnet Mask, and Gateway address for the Device MAC Address listed in the Device Network Settings window, as shown in Figure 2. The default IP Address is 192.168.20.177, the default Subnet Mask is 255.255.255.0.

D	evice Network S	ettings 🛛 🔀
	Device MAC Ad	dress: 00-0C-15-0A-0A-0A
	Using DHCP	OYes ⊙No
	IP Address	192 . 168 . 20 . 177
	Subnet Mask	255 . 255 . 255 . 0
	Gateway	192 . 168 . 20 . 1
		Save Cancel

Figure 2 - The SNMP card-setting window

6) To modify the IP Address, Subnet Mask, or Gateway Address, enter the new addresses into the corresponding fields.

7) You will need to enter a User Name and Password for the SNMP card in the authentication window, as shown in Figure 3. *Default user name: **admin**; Default password: **admin**

Authentication	X
Enter the user	name and password to save changes.
User name:	
Password:	
	OK Cancel

Figure 3 - Authentication window

After logging in for the first time, the system forces you to change the default password for security purposes.

8) If the IP address is successfully set, you will see a message that the IP set up is OK, as shown in Figure 4.



Figure 4 - Setup IP Address successfully message

Method 2: Using a command prompt

- 1) Obtain the MAC address from the label on the Network Interface Card labels on top. Each Interface card has a unique MAC address.
- 2) Use the ARP command to set the IP address.

Example:

To assign the IP Address 192.168.20.240 for the Network Interface Card, which has a MAC address of 00-0C-15-00-00-01 you will type in the following command prompt from a PC connected to the same network as the Network Interface Card.

- 1. Type in "arp-s 192.168.20.240 00-0C-15-00-00-01" then press Enter.
- 3) Use the Ping command to assign a size of 123 bytes to the IP.
 - 1. Type in "ping 192.168.20.240 -1 123" then press Enter
 - 2. If the replies are received, your computer can communicate with the IP address.

To select an IP address for the Network Interface Card, please refer to Appendix 1.

UPS REMOTE MANAGEMENT LOGIN

🥖 UPS Remote Management Login		🏠 🔹 🔝 🔹 🖶 🖬 🔹 🔂 Page 🕶
2	UPS Remote Management	
		6
	User name: admin	
	Password:	
GM	liddle Atlantic Products, Inc. All Rights Reserved <u>www.middlest.lintle.com</u> r	ev 0.9.3

UPS REMOTE MANAGEMENT LOGIN:

There are two account types:

- Administrator (default username: admin; default password: admin)
- Viewer (default username: guest; default password: guest)

NOTE:

- The Administrator can access and control all functions, including enabling/disabling of the Viewer account. The Viewer's access allows them read permissions for all functions, but they cannot control or change any settings.
- After logging in as the Administrator for the first time, the system forces you to change the default password for security purposes.

SUMMARY

	internet cxptorer			Annual Annual
🕥 👻 🙋 http://192.168.8.8/summary.	.html		Search the Web	P
Edit View Favorites Tools Help				
CONTRACTOR CONTRACTICON CONTRACTICON CONTRACTICON CONTRACTICON CONTRACTICON CONTRACTICON CONTRACTICON CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACT			🟠 • 📾 · 🖶 ·	• 🔂 Page 🔹 🍈 Tools 🔹
Middle Alfantic Products	UPS Remote Managemen	Administrator Summary	login from 192.168.8.44 🕹 [wegould] UPS Logs System Help	[] P
Current Condit	tion			
i UPS is normal				
UPS Status		System Data:		
Battery Capacity	100 %	Name UPS-IPCARD		
Load	0 %	Location		
		Contact		
Remaining Runti	me 139 min(s)	Contact Uptime 2day. 15hr. 5i	min. 21sec.	
Remaining Runti Recent Events:	me 139 min(s)	Contact Uptime 2day. 15hr. 5i	min. 21sec.	
Remaining Runti Recent Events: Date & Time	me 139 min(s) : Event	Contact Uptime 2day. 15hr. 5n	min. 21sec.	
Remaining Runti Recent Events: Date & Time 09/18/2010 22:3	me 139 min(s) : : Event 25:18 Admin login from 192.168.8.44.	Contact Uptime 2day. 15hr. 5r	min. 21sec.	
Remaining Runti Recent Events: Date & Time 09/18/2010 22:3 09/16/2010 21:2	me 139 min(s) Event 15:18 Admin login from 192.168.8.44. 14:04 Admin logout from 192.168.8.27.	Contact Uptime 2day. 15hr. 5r	min. 21sec.	
Recent Events: Date & Time 09/18/2010 22:3 09/16/2010 21:2 09/16/2010 21:2	me 139 min(s) Event 15:18 Admin login from 192.168.8.44. 14:04 Admin logout from 192.168.8.27. 13:03 Admin login from 192.168.8.27.	Contact Uptime 2day. 15hr. 5r	min. 21sec.	
Recent Events: Date & Time 09/18/2010 22:3 09/16/2010 21:2 09/16/2010 03:2	me 139 min(s) Event 15:18 Admin login from 192.168.8.44. 14:04 Admin logout from 192.168.8.27. 13:03 Admin login from 192.168.8.27. 10:59 Communication with the UPS has be	Contact Uptime 2day. 15hr. 5 r en established	min. 21sec.	

UPS SUMMARY:

Current Condition: Displays the current operating condition of UPS

UPS Status:

Battery Capacity: Remaining battery capacity **Load:** Current load as a percentage of max. load **Remaining Runtime**: On battery run-time

System Data:

Name: UPS name (editable field) Location: UPS location (editable field) Contact: Primary contact (editable field) Uptime: Time since last power on

Recent Device Events:

Recently Occurring Events: The maximum number of events displayed is 5 (five)

STATUS

	21				
	Status:				
Status	Input				
Information	Line Voltage	116.0 V			
Configuration	Output				
Control	Voltage	116.0 V			
Outlet Control	Frequency	60.0 Hz			
Diagnostics	Load	0 %			
Schedule	Battery				
	Remaining Capacity	100 %			
	Remaining Runtime	139 min(s)			
	System				
	Temperature	95.0 °F			

STATUS:

Input:

Line Voltage: Current input voltage (utility power)

Output:

Voltage: Output voltage of the UPS

Frequency: Output frequency

Load: Load expressed as a percentage of maximum load

Battery:

Remaining Capacity: Remaining battery capacity Remaining Runtime: On battery run-time

System:

Temperature: Internal temperature of the UPS

INFORMATION

temote Management			Administrator login from 192.16	58.8.44 8 [kogout-
MIGALE AVIANIC Fraduces UPS R	Remote Manage	ment	Summary UPS Logs	System He
	Information:			
Status	Model Name	UPS-1000R		
Information	Voltage Rating	120.0 V		
Configuration	Operating Frequency	57-63 Hz		
Control	Power Rating	1000 VA		
Outlet Control	Maximum Load	750 Watts		
Diagnostics	Battery Voltage Rating	48.0 V		
Schedule	Firmware Version	1.750		
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INFORMATION:

Model Name: The model name of the UPS
Voltage Rating: The nominal operating voltage rating
Operating Frequency: The frequency of the UPS input/output power
Power Rating: The capacity of the UPS in Volt-Amperes (VA)
Maximum Load: The capacity of the UPS in Watts
Battery Voltage Rating: The DC voltage rating of the battery
Firmware Version: The revision number of the UPS firmware

CONFIGURATION

GUPS Remote Management		<u>ن</u> ا	🔊 - 🖶 + 🔂 Page
	Remote Management	Administrator login from 192.168.8. Summary I UPS Logs S	44 & [lagout]]] ystem Help
Status Information Configuration Control Outlet Control Diagnostics Schedule	Configuration: Audible Alarm V Enable Apply Cancel		
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CONFIGURATION:

Audible Alarm: Enable or disable audible alarms

CONTROL



CONTROL:

Reboot UPS: Turns the UPS off and back on

Reboot Delay: How long the UPS waits before it turns off in response to a Reboot UPS

Reboot Duration: Period of time between 'power off' and 'power on' following a Reboot command

Standby Mode: Put UPS into standby mode

Standby Delay: How long the UPS waits before it turns off in response to a Standby Mode

Standby Delay: How long the UPS waits before it turns off in response to a Standby Mode

Sleep Mode: Temporarily suspends UPS operation for a pre-defined period of time

Sleep Mode Delay: How long the UPS waits before it turns off in response to Sleep Mode commands

Sleep Duration: Period of time between entering and recovering from Sleep Mode command

Notify Clients on Standby Mode: Alert Power Manager clients that UPS is entering Standby Mode

Cancel: Cancels a pending action

Click Next: The UPS will turn off in approximately 0 seconds. Once off, the UPS will restart after 10 seconds

OUTLET CONTROL (INDIVIDUAL OUTLET MODELS)

(UPS-1000R-8-IP, UPS-2200R-8-IP)

	individual Outlet	Control:		
Status	Outlet	Current State	ON	OFF
Configuration	1. Outlet1	ON	0	0
Control	2. Outlet2	ON	0	0
Outlet Control	3. Outlet3	ON	0	0
Diagnostics	4. Outlet4	ON	0	0
Schedule	5. Outlet5	ON	\circ	0
	6. Outlet6	ON	\circ	0
	7. Outlet7	ON	0	0
	8. Outlet8	ON	0	0
	Apply Rese	t		

OUTLET CONTROL:

The Outlet Control page displays the current state of, and provides on/off control for each individual outlet. Note: if a control PC has been assigned to a specific outlet within Power Manager, this outlet will be annotated with an asterisk (*). Select the outlet(s) to be controlled using the radio buttons and click *Apply*

Outlet Control Options:

- On: Turns the selected outlet on immediately
- Off: Turns the selected outlet off immediately

Edit Outlet Name:

To change or update an outlet name simply click on the respective outlet name, enter the next text and click *Apply*. Outlet name is restricted to a maximum of 15 characters.

OUTLET CONTROL (BANK OUTLET MODELS)

(UPS-1000R-IP, UPS-2200R-IP)

UPS Remote Management				6	• 🗟 • 🖶 • 🔂
UPS	Remote Manageme	nt	Administra Summa	ator login from 192.168 Iry UPS Logs	.8.44 & [iogout]] System Help
	Non-Critical Outlet Ban	k Control:			
Status	Outlet	Current State	ON	OFF	
Information	Non-Critical Outlet Bank	ON	۲	0	
Configuration					
Outlet Control	Apply Reset				
Diagnostics					
Schedule					
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OUTLET CONTROL:

The Outlet Control page displays the current state of, and provides on/off control for the Non-Critical Outlet Bank.

Non-Critical Outlet Bank Control Options:

- On: Turns non-critical outlet bank on immediately
- Off: Turns non-critical outlet bank off immediately

DIAGNOSTICS

Man UPSI	Remote Management		Administrato	r login fror	n 192.16	8.8.44 8 [Logout] System Hel
Status Information Configuration Control Outlet Control Diagnostics Schedule	Remote Management Diagnostics: Battery Test Last Test Result Last Test Date Initiate Runtime Calibration Estimated Runtime Last Calibration Result Last Calibration Date Start Abort	PASS 09/04/2010	Summary	UPS	Logs	System Hel

DIAGNOSTICS:

Initiate: Start the battery test immediately

BATTERY TEST: During a battery test the UPS will switch to battery mode to verify that the batteries are good. Use this test to perform a quick battery test. You can also view the date and time of the last test

PERFORM A BATTERY TEST:

1. Click the "Initiate" button, and you will hear a beeping sound while the test is being performed

2. Battery Test will report the result after the latest test is completed and display as follows:

LAST TEST RESULT:

PASSED: The battery works normally.
NONE: The battery has not been tested.
FAILED: The UPS battery test failed.
FORBIDDEN: Battery missing or internal error.
LAST TEST DATE: Shows the date of the last test performed.

SUGGESTIONS IF THE BATTERY TEST FAILED:

- **1.** Clear "Remaining Runtime is Insufficient" event and/or the "Output is Overloaded" event and run another battery test.
- 2. Replace the batteries if the battery test fails again.
- **3.** Contact Middle Atlantic Products for assistance if the battery test fails after the Batteries have been replaced.

RUNTIME CALIBRATION:

The runtime calibration synchronizes the runtime estimate with the current load and battery capacity. When a runtime calibration initiates, the "Calibration is Initiated" event occurs. A runtime calibration will discharge the batteries completely. The batteries will be recharged automatically following a calibration

Note: Frequent calibration will shorten the life of the batteries. We recommend one or two calibrations per year.

PERFORM A RUNTIME CALIBRATION:

ALL OUTLETS MUST BE ON TO PERFORM THIS FUNCTION

1. Click the "Start" button, this will initiate a runtime calibration

2. Click the "Cancel" button if you want to stop the runtime test before it is complete.

The Runtime Calibration will display the results either after the calibration finishes or you cancel the calibration. The results will report as follows:

ESTIMATED RUNTIME: The estimated runtime of the batteries under the present load conditions.

LAST CALIBRATION RESULT: The result of the most resent runtime calibration.

PASSED: Runtime calibration passed and the batteries are normal.NONE: A runtime calibration has not been performed.FAILED: The UPS failed during the runtime calibration.CANCELLED: The runtime calibration was stopped before completion.

LAST CALIBRATION DATE: The date the last runtime calibration was performed.

Note: The calibration process causes the batteries to completely discharge. If a utility power failure occurs during the calibration, the UPS will not support the connected equipment.

SCHEDULE

UPS Remote Management			🔓 • 🗟 - 🖶 • 📴 F
MIGHE ANIANIC PRAMILER UPS F	Remote Management	Administrator login fi Summary UPS	rom 192.168.8.44 🕏 [kogout 🕼] Logs System Help
Status Information Configuration Control Outlet Control Diagnostics Schedule	Schedule: Scheduled Standby Status Standby Time Restor Add New Standby Schedule Frequency One Time Per Day Per Week Next » Cancel	e Time Frequency Outlet	Comment
© Middle Atlantic Products, Inc.	All Rights Reserved	www.mpBlaptterrits.com	rev0.9.3

SCHEDULE:

Choose from One Time, Per Day, Per Week, and click Next>>

[One Time]: The user may set a specific date and time for the UPS standby mode. [Per Day]: Set a specific time of the day for the UPS standby mode. [Per Week]: Set a specific day and time of the week for the UPS standby mode.

- Continued on next page -

SCHEDULE CONTINUED

|--|

SCHEDULE CONTINUED:

Active: Enable or Disable this standby

Outlet: Define which outlets to shutdown (not available on all models)

Standby Time: Define when to standby

Restore Time: Define when to Restore

Shutdown Clients: Alert Power Manager Client(s) before entering standby mode

Comment: Enter an optional description of this schedule

EVENT LOGS

Tradition UF3	Remote Managen	nent Summary UPS Logs Sys
1	Event Logs:	
Event Logs	Date & Time	Event
Status Logs	09/08/2010 22:26:20	Admin login from 192.168.8.44
aintenance	09/08/2010 22:22:32	Admin logout from 192.168.8.44
	09/08/2010 22:08:30	Admin login from 192.168.8.44
	09/08/2010 22:01:15	Admin logout from 192.168.8.44
	09/08/2010 21:37:46	Admin login from 192.168.8.44
	09/08/2010 21:26:28	Admin logout from 192.168.8.44
	09/08/2010 21:19:42	Admin login from 192.168.8.44
	09/08/2010 02:55:26	Communication with the UPS has been established.
	09/08/2010 02:53:47	Communication with the UPS has been established.
	09/07/2010 23:54:06	Communication with the UPS has been established.
	09/07/2010 23:45:10	Communication with the UPS has been established.
	09/07/2010 21:37:10	Admin logout from 192.168.8.44
	09/07/2010 21:21:10	Configuration change by 192.168.8.44
	09/07/2010 21:20:03	Admin login from 192.168.8.44
	00/04/0010 01-FF-FD	Admin Learnin from 100 100 0 11

EVENT LOGS:

Event logs display event history together with a date and time stamp, and a brief description of the event

Notes: 1) Time stamp is in 24-hour clock format 2) Events to be recorded are listed under \system\event action

STATUS LOGS

Middle Ariancic Bradilices UPS I	Remote Manage	ment		Si	ımmarı	y UP	S Logs	System	He
	Status Logs:								
Event Logs	Date & Time	Input	Input	Output	Freq	Load	Capacity	Remaining	^
Maintenance	09/08/2010 22:55:20	111.0	116.0	115.0	(HZ) 60.0	0	100	139	
	09/08/2010 21:55:20	112.0	117.0	115.0	60.0	0	100	139	-
	09/08/2010 20:55:20	113.0	117.0	115.0	60.0	0	100	139	
	09/08/2010 19:55:20	113.0	119.0	117.0	60.0	0	100	139	
	09/08/2010 18:55:20	117.0	119.0	118.0	60.0	0	100	139	
	09/08/2010 17:55:20	119.0	119.0	118.0	60.0	0	100	139	
	09/08/2010 16:55:20	119.0	121.0	120.0	60.0	0	100	139	
	09/08/2010 15:55:20	121.0	121.0	120.0	60.0	0	100	139	
	09/08/2010 14:55:20	121.0	121.0	120.0	60.0	0	100	139	
	09/08/2010 13:55:20	119.0	121.0	120.0	60.0	0	100	139	
	09/08/2010 12:55:20	121.0	121.0	120.0	60.0	0	100	139	
	09/08/2010 11:55:20	121.0	121.0	120.0	60.0	0	100	139	
	09/08/2010 10:55:20	119.0	121.0	120.0	60.0	0	100	139	
	09/08/2010 09:55:20	119.0	121.0	120.0	60.0	0	100	139	~

STATUS LOGS:

Status logs display UPS status history together with a date and time stamp

All items are the same as in UPS\status with the following exceptions:

- Input min(V) The minimum input (line) voltage recorded since the last snapshot
- Input max(V) The maximum input (line) voltage recorded since the last snapshot

MAINTENANCE

🖉 UPS Remote Management		🟠 🔻 🖾 👘 🖶 Pag
Mindele Artistatic Praduces	temote Management	Administrator login from 192.168.8.44 6 [kogout]] Summary UPS Logs System Help
Event Logs Status Logs Maintenance	Maintenance: Event Logs Clear All Yes Number of Events Logged: 25 / 102 Status Logs Recording Interval 1 hour Clear All No Yes Remaining Time : More the Continue Cancel	: 24 an a month
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MAINTENANCE:

Clear Event Logs: Delete the current event logs

Recording Interval: The data sample rate. A smaller time interval will allow for more frequent recordings but the UPS will maintain them for a shorter period. A longer interval will provide less frequent recordings, but the UPS will maintain them for a longer period.

Clear Entire Records: Clears all current data logs

USER ACCOUNT

User Account Date & Time Identification Security Event Action SMTP Server E-mail Recipients Trap Receivers Client Standby TCP/IP HTTP Service SNMP Service FTP Service Preference About	User Account: Administrator User Name admin Current Password Confirm Password Guest Allow Access Enable User Name guest New Password Confirm Password Confirm Password Apply Cancel	
---	---	--

USER ACCOUNT:

Administrator: The administrator can access full functionality - includes enabling/disabling of the guest account

Guest: The Guest has read only access

Change admin account:

Enter the current user name Enter the new password Confirm the new password Click **Apply**

Change guest account:

Select Allow Access to enable the guest account Enter the user name Enter the new password Confirm the new password Click **Apply**

NOTES

Only one user session at a time is permitted

If you do not logout of the Remote Manager, the UPS-IPCARD will not allow a new session until the previous session times-out

DATE AND TIME

	Date & lime:
User Account	Current Settings
Date & Time	Date & Time 09/08/2010 23:24:16
Identification	Status Manually Updated
Security	Next NTP Update
Event Action	Sustan Time Configuration
SMIP Server	
E-mail Recipients	Use NTP Server
Client Standby	Primary NTP Server
	Secondary NTP Server
	Time Zone
SNMP Service	Update Interval [1-8760 Hours]
FTP Service	• opuate right how
Preference	Manual Setup
About	Date 09/08/2010 mm/dd/yyyy
	Time 23:24:17 hh:mm:ss
	Apply Cancel

DATE AND TIME:

Current Settings:

Date & Time - The current date and time settings of the card. Status - Displays configuration option Next NTP Update - The remaining time before next automatic update (if NTP selected)

SYSTEM TIME CONFIGURATION:

Use NTP Server:

Enter Primary NTP Server IP address Enter secondary NTP Server IP address Select Time Zone Enter Update Interval - Set the frequency to update the date and time from NTP server. (Choose Update Right Now to update immediately)

Manual Setup: Enter the date and time in the designated format

Enter Date Enter Time Click **Apply**

IDENTIFICATION

Remote Management		🔂 * 🗟 * 🖷 1
Middle Atlantic Fradices	Remote Management	Administrator login from 192.168.8.44& [kegeui آ Summary UPS Logs System Helj
User Account Date & Time Identification Security Event Action SMTP Server E-mail Recipients Trap Receivers Client Standby TCP/IP HTTP Service SNMP Service FTP Service Preference About	Identification: Name UPS-IPCARD Contact John Doe Location SERVER ROOM Apply Cancel	

IDENTIFICATION:

Name: Friendly name - user editable

Contact: Who to contact for service/help

Location: The location of the UPS

Note: Fields are limited to 15 (fifteen) characters

SECURITY

PS Remote Management		🟠 • 🔊 - 🖶 • E
	Remote Management	Administrator login from 192.168.8.44 6 (المهومية آليا Summary UPS Logs System Help
User Account Date & Time Identification Security Event Action SMTP Server E-mail Recipients Trap Receivers Client Standby TCP/IP HTTP Service SNMP Service FTP Service Preference About	Security: Login Session Timeout Apply Cancel	
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SECURITY:

Login Session: Timeout The period (in minutes) that the system waits before auto-logging users out

EVENT ACTION

UPS I	Remote Management Summary U	n from 192.: PS Logs	168.8.44 Syst	em
	Event Action:			
User Account	Event	Log	E-mail	Tr
Date & Time	Communication with the UPS has been established	•	•	
Identification	Communication with the UPS has been lost	•		
Security	UPS has switched to backup mode			
Event Action	Power restored, return from backup mode	•		
SMTP Server	UPS has detected a load over 100% of its rated capacity			
an Recipients	UPS is no longer in a overload condition			
ient Standby	UPS passed self test			-
TCP/IP	UPS failed self test			
HTTP Service	UPS battery discharging			
VMP Service	UPS battery charged			
FTP Service	Boost mode enabled - low utility voltage			
Preference	Buck mode enabled - high utility voltage			-
About	Battery capacity critically low		-	
	Recovered from critically low battery state			-
	IIDS antering clean mode sequence			
	UBS in clean mode. Output nover suspended	-		
	UBS woke up from clean mode. Output power suspended			
	UPS in steadburneds		-	
	Ups in standby mode			-
	OPS recovered from standby mode	•		
	UPS entering standby mode		۰	
	UPS reboot sequence started	٠	٠	
	The outlet state has been changed	•	•	
	The Cancel command has been executed	٠	•	
	UPS internal over-temp condition	•	•	
	UPS internal over-temp condition cleared	٠	٠	
	UPS has started a scheduled standby sequence		•	6
	The UPS remote command failed			6
	The UPS is compelled to standby			6
	Administrator login			
	Administrator logout	•		
	Guest login	٠		
	Guest logout	٠		

EVENT ACTION: Displays all possible events, and provides the means to configure responses to each event.

Click on the event to modify each respective response.

Log: Records the event in the "Event Logs"

E-mail: Sends an email to a specific e-mail address (requires an accessible SMTP server)

Trap: A SNMP trap is sent to a specific IP address

SMTP SERVER

	Remote Manageme	nt	Administrator login from 192.1 Summary UPS Logs	68.8.44 🕏 [kogout]] System Help
User Account Date & Time Identification Security Event Action SMTP Server E-mail Recipients Trap Receivers Client Standby TCP/IP HTTP Service SNMP Service FTP Service Preference About	SMTP Server:	0.0.0		

SMTP SERVER:

After configuring the SMTP server, the UPS can send an email to users when a specific event occurs.

Server's IP/Host Name: The IP or host name of the SMTP server

Sender's E-mail Address: 'From' field as shown in the e-mail message sent to user

Authentication: Select this option if the SMTP server requires authentication check

Username: Username used for SMTP authentication

Password: Password used for SMTP authentication

E-MAIL RECIPIENTS

UPS Remote Management		🛅 • 📾 · 🖶 •	🕑 Pa
	lemote Management	Administrator login from 192.168.8.44 🕃 (1999 and 🎝 Summary UPS Logs System Help	
User Account Date & Time Identification Security Event Action SMTP Server E-mail Recipients Trap Receivers Client Standby TCP/IP HTTP Service SNMP Service FTP Service Preference About	E-mail Recipients: Status E-mail New Recipient		
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E-MAIL RECIPIENTS:

Configure up to 5 (five) e-mail recipients. Each recipient will receive an e-mail notification on an 'Event' occurrence.

To add a new recipient, click **New Recipient**.

E-MAIL RECIPIENTS CONTINUED

🖉 UPS Remote Management - W	indows Internet Explore	26		🔳 🗗 🔀
🕞 🕞 🗸 🙋 http://192.168.8.8/	recipients_edit.html?add=Nev	v+Recipient	🖌 🛃 🔀 Se	arch the Web
File Edit View Favorites Tools	Help nt		<u>ه</u> .	🕥 🔹 🖶 🔹 🕞 Page 🔹 🎯 Tools 🗸 👋
Mindellar Albert		ote Management	Administrator login from 192.168.8.4 Summary UPS Logs <mark>Sy</mark>	18 [kagput]] item Help
Use Da Ide SM E-mail Trap Clien HT SNM F	Add f ar Account Activ ate & Time E-main security A ent Action TP Server Receivers at Standby TCP/IP TP Service AP Service Preference About	Vew E-mail Recipient: e		
© Middle Atlan	ntic Products, Inc.	All Rights Reserved	www.misBitestimme.com	rev 0.9.4

Enter the email address and click Apply

To modify or delete an existing recipient, click the e-mail address of that recipient.

TRAP RECEIVERS

Middle Atlantic Fradilicity OT ST	Nemote IV	lanagemen		Summary UPS	Logs System Help
1	Trap Rece	ivers:			
Date & Time Identification Security Event Action SMTP Server E-mail Recipients Trap Receivers Client Standby TCP/IP HTTP Service SNMP Service FTP Service Preference About	Hew Reco	siver	connunty		

TRAP RECEIVERS:

Configure up to 10 (ten) SNMP trap receivers.

To add a new receiver, click New Receiver

TRAP RECEIVERS CONTINUED



Enter the IP Address and Community and click Apply

TRAP RECEIVERS CONTINUED



- To modify or delete an existing receiver, click the IP Address of that receiver.

Note: When Middle Atlantic Power Manage connects to a UPS, the IP address of the host machine will be added to the list of trap receivers automatically.

CLIENT STANDBY

PS Remote Management			and the second se	🗄 • 🗟 - 🖶 • 🗄
UPS F	Remote Manageme	nt	Administrator login from 192 Summary UPS Log	168.8.44 🔒 [kogout 🗍] s System Help
	Configure Client Stands	y:		
User Account	Clients Standby Delay 2	Min		
Date & Time				
Identification	Force Negotiation	No		
Security	(🔵 Yes		
Event Action				
SMTP Server	Apply Cancel			
E-mail Recipients				
Trap Receivers				
Client Standby				
TCP/IP				
HTTP Service				
SNMP Service				
FTP Service				
Preference				
About				
@Middle Microix Decidence 1	ALL DI LLASS D			

CLIENT STANDBY:

Clients Standby Delay: The longest standby delay time required for connected Power Manager client(s)

Force Negotiation: Select to re-negotiate the standby delay with Power Manager clients. The Client's standby delay reverts to the default setting of 2 (two) minutes, but allows a negotiation time of up to 10 minutes.

TCP/IP

	TCP/IP:	
User Account	Current Configuration	
Date & Time	IP Address	192.168.8.8
Identification	Subnet Mask	255.255.255.0
Security	Gateway	192.168.8.1
Event Action	DNS Server	192.168.5.8
SMTP Server	DHCP	
E-mail Recipients	Enable DHCP	
Trap Receivers	✓ Obtain DNS Address from DH	ICP
Client Standby	Manual	
TCP/IP	IP Address	192.168.8.8
HTTP Service	Subnet Mask	255.255.255.0
SNMP Service	Gateway	192.168.8.1
FTP Service	DNS Server	192.168.5.8
Preference		
About	Apply Cancel	

TCP/IP:

Current Configuration: Displays the current TCP/IP settings: IP address, subnet mask, gateway, primary DNS server

DHCP Enable: Select this option and click Apply to enable DHCP

- DHCP Enabled Choose this option to get IP the address, subnet mask, and gateway.
- Obtain DNS Address from DHCP Select the option to get the DNS by DHCP if DHCP is enabled.

Manual Configuration: To disable DHCP, enter the TCP/IP settings manually and click Apply.

HTTP SERVICE

UPS Remote Management		🛅 • 🗟 - 🖶 • 🗟
	Remote Management	Administrator login from 192.168.8.44 🕄 [kogout 🕼] Summary UPS Logs System Help
User Account Date & Time Identification Security Event Action SMTP Server E-mail Recipients Trap Receivers Client Standby TCP/IP HTTP Service SNMP Service FTP Service Preference About	HTTP: Access Port 80 [80 or 5000-65535] Apply Cancel	Summary UPS Logs System Help
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HTTP SERVICE:

Allow Port: The TCP/IP port of the Hypertext Transfer Protocol (HTTP) (80 is the default)

SNMP SERVICE

Middle Atlantic Fradrices		ement	Summary UPS Logs System Hel
	SNMP:		
User Account	SNMP Service		
Date & Time	Allow Access 🛛 🗹	Enable	
Identification			
Security Event Action	Apply Cano	el	
SMTP Server	SNMP Access Contro	I	
E-mail Recipients	Community Name	IP	Access Type
Trap Receivers	public	0.0.0.0	Read Only
Client Standby	private	0.0.0	Read/Write
TCP/IP	public2	0.0.0	Forbidden
SNMP Service	public3	0.0.0	Forbidden
FTP Service			
Preference			
About			

SNMP SERVICE:

Allow Access: Sets the SNMP service to either Enabled or Disabled

SNMP ACCESS CONTROL

Community Name: The name used to access this community by a Network Management System (NMS). The field must be 1 to 15 characters in length.

IP/Host Name: The IP address or IP address mask accessible by the NMS. A specific IP address allows access only by the NMS with the specified IP address. The 255 is regarded as the mask and the rules are as follows:

- 192.168.20.255: Access only by an NMS on the 192.168.20 segment
- 192.255.255.255: Access only by an NMS on the 192. segment
- 0.0.0.0 (the default setting) or 255.255.255.255: Access by any NMS on any segment

Access Type: The allowable action for the NMS through the community and IP

Read Only - GETs permitted but SETs not permitted

Write/Read - GETs permitted, SETs permitted unless someone is logged in the web interface

Forbidden - No GETs or SETs

FTP SERVICE

Middle Arlandic Fradiliers UPS	Remote Management	Administrator login from 192.168.8.44 8 [togour] Summary UPS Logs System He
User Account Date & Time Identification Security Event Action SMTP Server E-mail Recipients Trap Receivers Client Standby TCP/IP HTTP Service SNMP Service FTP Service Preference About	FTP: Allow Access I Enable Access Port 21 [21 or 5000 Apply Cancel	-65535]

FTP SERVICE:

Allow Access: Enable access to the FTP server

Access Port: The TCP/IP port of the FTP server (21 by default)

Note: FTP server is used for upgrading Firmware. For more details, refer to the firmware upgrade section of this manual.

PREFERENCE

°S Remote Management		∆ • □ • ⊕ • ⊵
UPS I	Remote Management	Administrator login from 192.168.8.44 [logout]] Summary UPS Logs System Help
User Account Date & Time Identification Security	Preference: Temperature Scale Apply Cancel Fahrenheit(" Fahrenheit("F)	
Event Action SMTP Server E-mail Recipients Trap Receivers Client Standby		
TCP/IP HTTP Service SNMP Service FTP Service		
Preference About		
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PREFERENCE:

Temperature Scale: Selects the preferred unit of temperature (Celsius/Fahrenheit)

- Select the preferred unit from the dropdown and click Apply

ABOUT

S Remote Management	Remote Manage	ment	Administrator login from 192 Summary UPS Logs	
	About:			
User Account	Model Name	UPS-IPCARD		
Date & Time	Hardware Version	1.0		
Identification	Firmware Version	0.9.3		
Security	Firmware Update Date	9/8/2010		
Event Action	MAC Address	00-0C-15-00-0B-50		
SMTP Server				
E-mail Recipients				
Trap Receivers				
Client Standby				
TCP/IP				
HTTP Service				
SNMP Service				
FTP Service				
Preference				
About				

ABOUT:

Model Name: Model name of the Network Interface Card

Hardware Version: The hardware version for the Network Interface Card

Firmware Version: The revision number of the firmware currently installed on Network Interface Card

Firmware Updated Date: The date the firmware was last updated

MAC Address: The MAC address of the Network Interface Card. Note that the MAC address is also detailed on the top of the Network Interface Card itself

Reset to Default Setting/Recover from a Forgotten Password

To reset the Middle Atlantic Network Interface Card to its default setting (including WEB login user name and password), use the following steps.



- 1) Remove the two retaining screws on the card without turning off the UPS.
- 2) Remove the card from the expansion port.
- 3) Remove the jumper on the Reset pins as illustrated. (The jumper is still needed after the reset, carefully set it aside for now.)
- 4) Re-install the card into the expansion port.
- 5) Wait until the Green LED (RX/TX) is flashing (the frequency of the ON/OFF flashing is one second).
- 6) Remove the card from the expansion port.
- 7) Re-install the jumper on the reset pins.
- 8) Re-install the card into the expansion port.
- 9) Re-install and tighten the retaining screws.

After restoring default settings, the system forces you to change the default password for security purposes.

Firmware Upgrade

INITIAL SETUP

- 1) Ensure that the UPS-IPCARD to be upgraded is correctly installed in the UPS, and that the UPS is powered on.
- Connect the UPS-IPCARD to the network and use the UPS-IPCARD Setup Utility to locate and identify the card to be upgraded. See Figure 1 on the following page.
 - 1.2.1 The UPS-IPCARD Setup Utility will identifies all UPS-IPCARDs that are on the same subnet, so carefully confirm that you have identified the desired card before proceeding.
 - 1.2.2 If the computer and the UPS-IPCARD to be upgraded are not on the same subnet, the default gateway must be configured to correctly route between the two subnets.

1.2.3 The UPS-IPCARD Setup Utility can be installed from the CD originally provided with the network card.

<u>1</u> 22	Middle Atlantic Product	s UPS-IPCARD Setu	p Utility			_ 🗆 🗙			
Fi	le Tools Help								
	Power Devices								
	MAC Address	IP Address	Subnet Mask	Gateway	DHCP	Name			
	■ 00-0C-15-00-0B-57	192.168.7.43	255.255.255.0	192.168.7.1	Enable	SNAP			
	•					Þ			
	Refresh Stop								
									

Figure 1: UPS-IPCARD Setup Utility

2) PROCEDURE

There are two separate files that required updating; these are:

- mapsnmpfw_xxx.bin
- mapsnmpdata_xxx.bin

where 'xxx' refers to the version of firmware

The 'XXX' version number of each file must match in order for the UPS-IPCARD to function. The most recent firmware version can be obtained by contacting Middle Atlantic Products Technical Support at (800) 266-7225

Create a sub-directory 'MAP' at the root level of the installing PC and copy the two firmware update files to that directory (i.e. C:\MAP\).

- 2.1 Update mapsnmpfw_XXX.bin
- Open a command prompt window
- Type **C:** and press the '**Enter**' key.
- Type ftp xxx.xxx.xxx and press the 'Enter' key (where xxx.xxx.xxx is the IP Address of the UPS-IPCARD to be updated)
- When prompted enter 'user name' and press the 'Enter' key (default username; admin)
- When prompted enter 'password' and press the 'Enter' key (default password: admin)
- Type "bin", and press the 'Enter' key.
- Type "put c:\map\mapsnmpfw_XXX.bin", and press the 'Enter' key

- When the update has completed type "bye", and press the 'Enter' key
 - If 'put c:\map\mapsnmpfw_XXX.bin' was not successful then type "ftp –w:16384 xxx.xxx.xxx.xxx" and go through the above steps again.



Figure 1: Example of update process for mapsnmpfw_xxx.bin

- 2.2 Update mapsnmpdata_XXX.bin
- Open a command prompt window
- Type **C:** and press the '**Enter**' key.
- Type ftp xxx.xxx.xxx and press the 'Enter' key (where xxx.xxx.xxx is the IP Address of the UPS-IPCARD to be updated)
- When prompted enter 'user name' and press the 'Enter' key (default username:admin)
- When prompted enter 'password' and press the 'Enter' key (default password: admin)
- Type "bin", and press the 'Enter' key.
- Type "put c:\map\mapsnmpdata_XXX.bin", and press the 'Enter' key
- When the update has completed type "bye", and press the 'Enter' key
 - If 'put c:\map\mapsnmpdata_XXX.bin' was not successful then type "ftp –w:16384 xxx.xxx.xxx" and go through the above steps again.



Figure 2: Example of update process for mapsnmpdata_xxx.bin

- 2.3 Clear current version of firmware
- Disconnect the UPS-IPCARD from the network.
- Remove the UPS-IPCARD from the UPS.
- Remove the jumper (as indicated below).



- Replace the UPS-IPCARD in the UPS.
- Wait for the green LED on the front of the card to start blinking (about 10 seconds).

• Remove the UPS-IPCARD from the UPS, and replace the jumper.



- Replace the UPS-IPCARD in the UPS.
- Reconnect the UPS-IPCARD to the network.
- 2.4 Confirm New Version of Firmware
 - Open a browser session and go to the IP Address of the UPS-IPCARD.
 - The current firmware version is displayed on the Login page as shown.

	105 Demote Management	
	User name:	
_	EOGIN ©Middle Atlantic Products, Inc. All Rights Reserved www.ouiddlessitied models rev 0.9.3	

TROUBLESHOOTING

Problem	Solution
	1. Check the LED status, the normal condition is both
	the yellow and green LED are on.
	If green LED is off:
	Check the Interface Card for proper seating in the UPS
Unable to configure the	and ensure that the UPS power is on.
Management Card by method 1	If yellow LED is off:
or method 2	1. Ensure the network connection is valid
	2. Ensure the PC being used is on the same physical
	network as Network Interface Card.
	1. Verify the IP Address of the Network Interface Card.
	Refer to the appendix for selecting an IP Address
Unable to ping the Management	
Card	2. If the PC being used is on a different physical
	network from the Network Interface Card, verify the
	setting of subnet mask and the IP address of gateway.
	Please refer to the "Reset to Default Setting/Recover
Forgotten user name and/or	from a forgotten password" section of the user's
password	manual.

APPENDIX: IP ADDRESS SETTINGS FOR THE MIDDLE ATLANTIC 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 Middle Atlantic Network Interface Card, you must determine the range of the available IP addresses, and then choose an unused IP address to assign to the Network Interface 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 Middle Atlantic Network Interface 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 command prompt type "**ipconfig/all**" and press [Enter]. The computer will display network information: 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 Auto configuration 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 DHCP Server....: 192.168.20.1 DNS Servers...: 211.20.71.202; 168.95.1.1

2) Select an IP Address for Middle Atlantic 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 as the computer.

If you wish to set the IP Address to 192.168.20.240, type "Ping 192.168.20.240" in the command prompt. If the request times out (See Figure) the address is most likely not used and available for use with the Middle Atlantic Network Interface Card

Pinging 192.168.20.240 with 32 bytes of data:

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

FIGURE AND PROMPT

Any other response indicates the IP Address selected is not available (See Figure). Select another IP Address and repeat the ping command 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 Reply from 192.168.20.240: bytes=32 time<10ms TTL=64 Reply from 192.168.20.240: bytes=32 time<10ms TTL=64 Reply from 192.168.20.240: bytes=32 time<10ms TTL=64

FIGURE AND PROMPT

WARRANTY

For warranty information, refer to http://www.middleatlantic.com/company/about-us.aspx#warranty

Corporate Headquarters

Voice: 973-839-1011 - Fax: 973-839-1976 - International Voice: +1 973-839-8821 - Fax: +1 973-839-4982 - www.middleatlantic.com - info@middleatlantic.com

Middle Atlantic Canada

Voice: 613-836-2501 - Fax: 613-836-2690 - ca.middleatlantic.com - customerservicecanada@middleatlantic.ca

Middle Atlantic EMEA Technical Support

Voice: +31 (0) 495 726002 - av.emea.middleatlantic.support@legrand.com

Factory Distribution

United States: New Jersey, California, Illinois - Canada: Ontario - The Netherlands: Weert

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