THANK YOU

Thank you for purchasing a UPS-OLIPCARD product. Please read these instructions thoroughly before installing this product.

PRODUCT 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
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This manual contains important instructions. Please read and follow all instructions carefully during installation and operation of the unit. Read this manual thoroughly before attempting to unpack, install, or operate the UPS.

CAUTION! The UPS must be connected to a grounded AC power outlet with fuse or circuit breaker protection. DO NOT plug the UPS into an outlet that is not grounded. If you need to power-drain this equipment, turn off and unplug the unit.

CAUTION! The battery can power hazardous components inside the unit, even when the AC input power is disconnected.

CAUTION! The UPS should be placed near the connected equipment and easily accessible.

CAUTION! To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area, free of conductive contaminants. (Please see “Technical Specifications” on page Error! Bookmark not defined. for acceptable temperature and humidity ranges).

CAUTION! (No User Serviceable Parts): Risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION! (Non-Isolated Battery Supply): Risk of electric shock, battery circuit is not isolated from AC power source; hazardous voltage may exist between battery terminals and ground. Test before touching.

CAUTION! To reduce the risk of fire, connect the UPS to a branch circuit with 15 amperes (UPS-OL1500R) / 20 amperes (UPS-OL2200R) / 30 amperes (UPS-OL3000R) maximum over-current protection in accordance with the National Electric Code, ANSI/NFPA 70.

CAUTION! The AC outlet where the UPS is connected should be close to the unit and easily accessible.

CAUTION! Please use only UL-marked mains cable, (e.g. the mains cable of your equipment), to connect the UPS to the AC outlet.

CAUTION! Please use only UL-marked power cables to connect any equipment to the UPS.

CAUTION! When installing the equipment, ensure that the sum of the leakage current of the UPS and the connected equipment does not exceed 3.5mA.

CAUTION! The UPS-OL1500R / UPS-OL2200R / UPS-OL3000R models may only be installed by qualified maintenance personnel.

CAUTION! Do not unplug the unit from AC Power during operation, as this will invalidate the protective ground insulation.

CAUTION! To avoid electric shock, turn off and unplug the unit before installing the input/output power cord with a ground wire. Connect the ground wire prior to connecting the line wires!

CAUTION! Do not use an improper size power cord as it may cause damage to your equipment and cause fire hazards.

CAUTION! Wiring must be done by qualified personnel.

CAUTION! DO NOT USE FOR MEDICAL OR LIFE SUPPORT EQUIPMENT! Under no circumstances this unit should be used for medical applications involving life support equipment and/or patient care.

CAUTION! DO NOT USE WITH OR NEAR AQUARIUMS! To reduce the risk of fire, do not use with or near aquariums. Condensation from the aquarium can come in contact with metal electrical contacts and cause the machine to short out.

CAUTION! Do not dispose of batteries in fire as the battery may explode.

CAUTION! Do not open or mutilate the battery, released electrolyte is harmful to the skin and eyes.

CAUTION! A battery can present a risk of electric shock and high short circuit current. The following precautions should be observed when working on batteries:
1. Remove watches, rings or other metal objects.
2. Use tools with insulated handles.

CAUTION! The unit has a dangerous amount of voltage. When the UPS indicators is on, the units may continue to supply power thus the unit's outlets may have a dangerous amount of voltage even when it’s not plugged in to the wall outlet.

CAUTION! Make sure everything is turned off and AC power is disconnected completely before conducting any maintenance, battery replacement, repairs or shipment.

CAUTION! Connect the Protection Earth (PE) safety conductor before any other cables are connected.

WARNING! (Fuses): To reduce the risk of fire, replace only with the same type and rating of fuse.

DO NOT INSTALL THE UPS WHERE IT WOULD BE EXPOSED TO DIRECT SUNLIGHT OR NEAR A STRONG HEAT SOURCE!

DO NOT BLOCK OFF VENTILATION OPENINGS AROUND THE HOUSING!

DO NOT CONNECT DOMESTIC APPLIANCES SUCH AS HAIR DRYERS TO UPS OUTPUT SOCKETS!

SERVICING OF BATTERIES SHOULD BE PERFORMED OR SUPERVISED BY PERSONNEL WITH KNOWLEDGE OF BATTERIES AND THEIR REQUIRED PRECAUTIONS. KEEP UNAUTHORIZED PERSONNEL AWAY FROM BATTERIES!
CONSIGNES DE SÉCURITÉ IMPORTANTES

Ce manuel contient des instructions importantes. S'il vous plaît lire et suivre attentivement toutes les instructions lors de l'installation et le fonctionnement de l'unité. Lisez attentivement ce manuel avant de déballer, installer ou utiliser l'onduleur.

ATTENTION! L'onduleur doit être connecté à une prise d'alimentation secteur à la terre avec protection fusible ou un disjoncteur. Ne branchez pas l'UPS dans une prise qui ne sont pas mis à la terre. Si vous avez besoin de puissance-drain cet équipement, éteignez et débranchez l'appareil.

ATTENTION! La batterie peut alimenter des composants dangereux dans l'appareil, même lorsque la puissance d'entrée CA est débranché.

ATTENTION! L'onduleur doit être placé près de l'équipement connecté et facilement accessible.

ATTENTION! Pour prévenir le risque d'incendie ou de choc électrique, installer dans une température et humidité contrôlées zone couverte, exempt de contaminants conducteurs. (S'il vous plaît voir "Spécifications techniques" à la page Error! Bookmark not defined. pour température et d'humidité acceptables).


ATTENTION! (Alimentation Batterie non-isolé): Risque de choc électrique, le circuit de la batterie est pas isolé de la source d'alimentation; tension dangereuse peut exister entre les bornes de la batterie et la terre. Test avant de les toucher.

ATTENTION! Pour réduire le risque d'incendie, de connecter l'onduleur à un circuit de dérivation de 15 ampères (UPS-OL1500R) / 20 ampères (UPS-OL2200R) / 30 ampères (UPS-OL3000R) maximale de protection de surintensité en conformité avec le Code national de l'électricité, ANSI / NFPA 70.

ATTENTION! La prise secteur où l'onduleur est connecté doit être proche de l'appareil et facilement accessible.

ATTENTION! S'il vous plaît utilisez uniquement UL marqué câble d'alimentation, (par exemple le câble d'alimentation de votre équipement), pour connecter l'onduleur à la prise secteur.

ATTENTION! S'il vous plaît utiliser les câbles d'alimentation ne UL-marqués pour connecter un équipement à l'onduleur.

ATTENTION! Lors de l'installation de l'équipement, veiller à ce que la somme du courant de fuite de l'onduleur et l'équipement connecté ne dépasse pas 3.5 mA.

ATTENTION! Les UPS-0LEBPR-1 / UPS-0LEBPR-2 modèles doivent être installés par le personnel de maintenance qualifié.

ATTENTION! Ne pas débrancher l'appareil de l'alimentation secteur pendant l'opération, car cela annulerait l'isolation de la terre de protection.

ATTENTION! Pour éviter un choc électrique, éteignez et débranchez l'appareil avant d'installer le cordon d'alimentation d'entrée / sortie avec un fil de terre. Branchez le fil de terre avant de connecter de la lignes.

ATTENTION! Ne pas utiliser une taille incorrecte cordon car cela peut causer des dommages à votre équipement et causer des risques d'incendie.

ATTENTION! Les travaux de câblage doit être effectué par du personnel qualifié.

ATTENTION! NE PAS UTILISER POUR DES APPAREILS DE MÉDICAL OU SOUTIEN DE LA VIE! En aucun cas, cet appareil doit être utilisé pour des applications médicales impliquant l'équipement de soutien de vie et / ou les soins aux patients.

ATTENTION! NE PAS UTILISER AVEC OU PROXIMITÉ D'UN AQUARIUM! Pour réduire le risque d'incendie, ne pas utiliser avec ou près des aquariums. La condensation de l'aquarium peut entrer en contact avec des contacts électriques métalliques et provoquer à court-circuit.

ATTENTION! Ne jetez pas les batteries au feu, car la batterie pourrait exploser.

ATTENTION! Ne pas ouvrir ni mutiler la batterie, l'électrolyte libéré est nocif pour la peau et les yeux.

ATTENTION! Une batterie peut présenter un risque de choc électrique et de courant de court circuit élevé. Les précautions suivantes doivent être observées lors de travaux sur les batteries:

1. Retirez montres, bagues ou autres objets métalliques.
2. Utilisez des outils isolés.

ATTENTION! L'unité dispose d'une quantité dangereuse de tension. Lorsque les indicateurs UPS est en marche, les unités peuvent continuer à alimenter ainsi les points de vente de l'unité peut avoir une quantité dangereuse de tension même quand il est pas branché à la prise murale.

ATTENTION! Assurez-vous que tout est éteint et alimentation secteur est débranchée complètement avant de procéder à tout entretien, le remplacement de la batterie, réparations ou l'expédition.

ATTENTION! Raccorder de la terre de protection (PE) conducteur de sécurité avant tous les autres câbles sont connectés.

AVERTISSEMENT! (Fusibles): Pour réduire le risque d'incendie, ne remplacer avec le même type et calibre du fusible.

NE PAS INSTALLER L'ONDULEUR OÙ IL SERAIT EXPOSÉ DIRECTEMENT AU SOLEIL OU PRÈS D'UNE SOURCE DE CHALEUR!

NE PAS BLOQUER OUVERTURES DE VENTILATION AUTOUR DU BOITIER!

NE PAS CONNECTER APPAREILS DOMESTIQUES, POUR LES SECHOIRS EXEMPLE CHEVEUX, DANS LES PRISES DE SORTIE DE L'UPS!

ENTRETIEN DES BATTERIES DOIT ÊTRE EFFECTUÉ OU SUPERVisé PAR UN PERSONNEL QUI A

CONNAISSANCE DE BATTERIES ET LEURS PRÉCAUTIONS REQUISES. GARDER LE PERSONNEL NON AUTORISÉ LOIN DES BATTERIES!
Federal Communications Commission (FCC) Compliance Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

REMARQUE: Cet équipement a été testé et jugé conforme aux limites de la classe A des appareils numériques, conformément à la section 15 de la réglementation de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles lorsque l'équipement est utilisé dans un environnement commercial. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence et, si non installé et utilisé conformément au manuel d'instruction, peut provoquer des interférences dans les communications radio. Le fonctionnement de cet équipement dans une zone résidentielle est susceptible de provoquer des interférences nuisibles, auquel cas l'utilisateur sera tenu de corriger les interférences à ses propres frais.

CAUTION! Any changes or modifications not expressly approved by the manufacturer could void the user’s authority to operate the equipment.

ATTENTION! Les changements ou modifications non expressément approuvés par le fabricant peuvent annuler le droit de l’utilisateur à utiliser l’équipement.

Industry Canada (IC)

ICES-003 Class A Notice - Avis NMB-003, Classe A This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.
INTRODUCTION

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.

Key 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

- Windows® 7 32/64-bit or later with .Net 4.0 Framework or later
- 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

![Diagram of system components]

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.
Hardware Installation

To install your UPS-OLIPCARD into your Online UPS:

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-OLIPCARD 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-OLIPCARD.
6. Turn on the UPS.

<table>
<thead>
<tr>
<th>Link LED Color</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>The Network Management Card is not connected to the Network/or the Network Interface Card Power is</td>
</tr>
<tr>
<td>Link LED Color</td>
<td>Condition</td>
</tr>
<tr>
<td>---------------</td>
<td>------------------------------------------------------------</td>
</tr>
<tr>
<td>off.</td>
<td></td>
</tr>
<tr>
<td>On (Yellow)</td>
<td>The Network Interface Card is connected to the Network.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RX/TX LED Color</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>The Network Interface Card power is off.</td>
</tr>
<tr>
<td>On (Green)</td>
<td>The Network Interface Card power is on.</td>
</tr>
<tr>
<td>Flashing</td>
<td>• Receiving/transmitting data packet.</td>
</tr>
<tr>
<td></td>
<td>• Reset finished.</td>
</tr>
</tbody>
</table>

Configuring the IP Address

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

1. 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-OLIPCARD Setup Utility" installation file, **MAP_SNMP_Setup.msi** to begin the installation.

2. After installation is complete, run the “Middle Atlantic UPS-OLIPCARD Setup Utility” program from **All Programs > Middle Atlantic UPS-OLIPCARD Setup Utility**.

3. The main dialog of the “Middle Atlantic UPS-OLIPCARD Setup Utility” program is shown as follows. 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.

4. Select the SNMP card you are setting up.

5. Click **Tools > Device Setup** or double-click the SNMP card you want to configure.
6. You can modify the IP Address, Subnet Mask, and Gateway address for the Device MAC Address listed in the Device Network Settings window, as follows. The default IP Address is 192.168.20.177, the default Subnet Mask is 255.255.255.0.

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

8. You will need to enter a User Name and Password for the SNMP card in the authentication window, as follows. Default user name: admin; Default password: admin.

9. If the IP address is successfully set, you will see a message that the IP set up is OK, as follows.
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:** If you want to assign the IP Address 192.168.20.240 for the Network Interface Card, which has a MAC address of 00-0C-15-00-00-0:
   
   a. Type in the following command prompt from a PC connected to the same network as the Network Interface Card:

   \[ \texttt{arp -s 192.168.20.240 00-0C-15-00-00-01} \]

   b. Press **Enter**.

3. Use the Ping command to assign a size of 123 bytes to the IP.
   
   a. Type **ping 192.168.20.240 -1 123**.

   b. Press **Enter**.

   c. If replies are received, your computer can communicate with the IP address.

   **NOTE:** To select an IP address for the Network Interface Card, please refer to Appendix 1.
To log into the UPS Remote Management system:

1. Log into the UPS Remote Management system using one of the two available accounts:
   - Administrator (default username: admin; default password: admin)
   - Viewer (default username: guest; default password: guest)

**NOTE**: The Administrator can access and control all functions, including enable/disable of the Viewer account. The Viewer’s access allows them read permissions for all functions but they cannot control or change any settings.
The UPS summary screen provides a dashboard that includes information for current conditions, UPS status, system data, and recent events.

**To view UPS summary information:**

1. Log into the UPS Remote Management System.
   For more information, see “Logging into the UPS Remote Management System” on page 14.
2. Click **Summary**.

The Current Condition section of the screen displays the current operating condition of UPS.

The UPS Status section of the screen displays the following:
- **Battery Capacity**: Remaining battery capacity
- **Load**: Current load as a percentage of max. load
- **Remaining Runtime**: On battery run-time

The System Data section of the screen displays the following:
• **Name**: UPS name (editable field)

• **Location**: UPS location (editable field)

• **Contact**: Primary contact (editable field)

• **Uptime**: Time since last power on

The Recent Events section of the screen displays the following:

• **Recently Occurring Events**: Provides the date and time of the event along with an event description. The maximum number of events displayed is 5 (five)
CONFIGURING UPS SETTINGS

UPS menus include configuration interfaces for Status, Information, Configuration, Control, Outlet Control, Diagnostics, and Schedule. The following topics cover the interfaces in more detail.

Viewing the UPS Status Screen

To view the UPS status screen:

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click UPS > Status.

The Input section of the screen displays the following:

- **Line Voltage**: Current input voltage (utility power)

The Output section of the screen displays the following:

- **Voltage**: Output voltage of the UPS
- **Frequency**: Output frequency
- **Load**: Load expressed as a percentage of maximum load

The Battery section of the screen displays the following:

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

The System section of the screen displays the following:

- **Temperature**: Internal temperature of the UPS

**Viewing the UPS Information Screen**

To view the UPS information screen:

1. Log into the UPS Remote Management System.
   For more information, see “Logging into the UPS Remote Management System” on page 14.
2. Click **UPS > Information**.

The Information screen displays the following:
- **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
Configuring UPS Alarm

To configure the UPS alarm:

1. Log into the UPS Remote Management System.
   For more information, see “Logging into the UPS Remote Management System” on page 14.
2. Click **UPS > Configuration**.

3. Select or clear the Audible Alarm check box as desired.
4. Click **Apply**.
Configuring UPS Controls

To configure the UPS controls:

1. Log into the UPS Remote Management System.

   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click UPS > Control.

3. Select Reboot UPS, Standby Mode, or Sleep Mode and make the following configurations:
   - If selecting Reboot UPS to turn the UPS off and back on, configure the following settings:
     a. Reboot Delay: How long the UPS waits before it turns off in response to a Reboot UPS
     b. Reboot Duration: Period of time between 'power off' and 'power on' following a Reboot command
   - If selecting Standby Mode to put the UPS into standby mode, configure the following settings:
a. **Standby Delay**: How long the UPS waits before it turns off in response to a Standby Mode

- If selecting Sleep Mode to suspend UPS operation for a predefined period of time, configure the following settings:
  a. **Sleep Mode Delay**: How long the UPS waits before it turns off in response to Sleep Mode commands
  b. **Sleep Duration**: Period of time between entering and recovering from Sleep Mode command

4. Select or clear the “Notify Clients on Standby Mode” check box as desired.

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

**The UPS Outlet Control Screen**
*(for Individual Outlet Models UPS-1000R-8-IP, UPS-2200R-8-IP)*

The Outlet Control screen 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.

**To configure UPS outlet controls for individual outlet models:**

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **UPS > Outlet Control**.
3. Select the outlets to be controlled using the radio buttons.
   Choose ON to turn the selected outlet on immediately. Choose OFF to turn the selected outlet off immediately.

4. Click **Apply**.

5. Edit outlet names by clicking the respective outlet name, providing desired text.

6. Click **Apply**.

   **NOTE**: The outlet name is restricted to a maximum of 15 characters.

**The UPS Outlet Control Screen**
*(for Bank Outlet Models UPS-1000R-IP, UPS-2200R-IP)*

**To configure UPS outlet controls for bank outlet models:**

1. Log into the UPS Remote Management System.

   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **UPS > Outlet Control**.
The Outlet Control screen displays the current state of, and provides ON/OFF control for the Non-Critical Outlet Bank.

7. Select the ON/OFF control using the radio buttons.
   Choose ON to turn the selected outlet on immediately. Choose OFF to turn the selected outlet off immediately.

8. Click Apply.
Performing UPS Diagnostics

UPS diagnostics include Battery Tests and Runtime Calibrations.

Performing a Battery Test

To perform a battery test:

3. Log into the UPS Remote Management System.

   For more information, see “Logging into the UPS Remote Management System” on page 14.

4. Click **UPS > Diagnostics**.

   ![UPS Remote Management Interface](image)

In the Battery Test section of the screen, enter the following:

5. View the Last Test Result and Last Test Date information after running a battery test.

   One of the following Last Test Results appear:

   - **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.

**Performing a Runtime Calibration**

**NOTE:**

- Frequent calibration will shorten the life of the batteries. Middle Atlantic Products recommends one or two calibrations per year.

- All outlets must be on in order to perform this function.

- 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.

**To perform a runtime calibration:**

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **UPS > Diagnostics**.
   
   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.

3. View the Estimated Runtime, Last Calibration Result, and Last Calibration Date after performing or cancelling a calibration.

   Estimated Runtime provides the estimated runtime of the batteries under the present load conditions.

   Last Calibration Results show as one of the following:

   - **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 provides the date of the results.

4. Click **Start** to initiate a runtime calibration.

5. Click **Cancel** 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:

**Resolving Battery Test Failures**

To resolve a battery test failure:

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 technical support at 1-800-266-7225 for more information about Middle Atlantic Product’s Battery Replacement Program.

**Configuring a UPS Schedule**

To configure a UPS schedule:

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **UPS > Schedule**.
The Schedule Standby section of the screen shows standby schedules in waiting and provide details for status, standby time, restore time, frequency outlet, and comments.

3. In the “Add New Standby Schedule” section of the screen, choose from One Time, Per Day, or Per Week as follows:
   - 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.

4. Click Next.
   The Add New Standby Schedule screen appears.
5. Enter values for the following fields:
   - **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

6. Click **Apply**.
Logs menus include configuration interfaces for Event Logs, Status Logs, and Maintenance. The following topics cover the interfaces in more detail.

**Viewing Event Logs**

**To view event logs:**

1. Log into the UPS Remote Management System.

   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **Logs > Event Logs**.

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

**NOTE:**

- Time stamp is in 24-hour format.
- Events to be recorded are listed under `system\event action`.
Viewing Status Logs

To view status logs:

1. Log into the UPS Remote Management System.
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click Logs > 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
Configuring Event and Status Log Maintenance

To configure event and status log maintenance:

1. Log into the UPS Remote Management System.
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **Logs > Maintenance**.

3. In the Event Logs section of the screen, enter the following:
   a. In the Clear All field, select No or Yes as desired.
      The “Number of Events Logged” is shown.

4. In the Status Logs section of the screen, enter the following:
   a. In the Recording Interval drop-down, select the desired 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.
b. In the Clear All field, select No or Yes as desired.

The Remaining Time is shown.

5. Click **Continue**.

**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
System menus include configuration interfaces for User Account, Date & Time, Identification, Security, Event Action, SMTP Server, Email Recipients, Trap Receivers, Client Standby, TCP/IP, HTTP Service, SNMP Service, FTP Service, Preference, and About. The following topics cover the interfaces in more detail.

**Configuring User Accounts**

**To configure user accounts:**

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **System > User Account**.

   ![User Account Interface](image)

**NOTE:**

- The administrator can access full functionality. This includes enabling and disabling the guest account.
• The guest account has read-only access.
• Only one user session at a time is permitted.
• If you do not logout of the Remote Manager, the UPS-OLIPCARD will not allow a new session until the previous session times out.

3. In the Administrator section of the screen, enter the following values:
   a. In the Administrator fields, provide user name, and current, new, and confirm password values.
   b. Click **Apply**.

4. In the Guest section of the screen, enter the following values:
   a. In the Guest fields, provide user name, and current, new, and confirm password values.
   b. Click **Apply**.

**Configuring Date & Time Settings**

To configure date & time settings:

1. Log into the UPS Remote Management System.
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **System > Date & Time**.
6. The following Current Settings appear:
   - **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)

7. Select either Use NTP Server or Manual Setup and make the following configurations:
   - Configure the following Use NTP Server settings:
     - 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)
   - Click **Apply**.
   - Configure the following Manual Setup settings:
c. Enter Date
d. Enter Time
e. Click Apply.

**Configuring Identification Values**

**To configure identification values:**

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.
   
2. Click **System > Identification**.

3. Configure the following Identification settings:

   a. **Name**: Friendly name. This field is mutable.
   
   b. **Contact**: Who to contact for service or help.
   
   c. **Location**: The location of the UPS.
**NOTE**: Fields are limited to 15 (fifteen) characters

4. Click **Apply**.
Configuring the Security Timeout Duration

To the security timeout duration:

1. Log into the UPS Remote Management System.
2. Click **System > Security**.
3. In the Timeout drop-down, select the period (in minutes) that the system waits before auto-logging users out.
4. Click **Apply**.

Configuring Event Action Responses

To configure event action responses:

1. Log into the UPS Remote Management System.
2. For more information, see “Logging into the UPS Remote Management System” on page 14.
2. Click **System > Event Action**.

The Event Action screen displays all possible events, and provides the means to configure responses for each event.

3. Click an event to modify the corresponding response as follows:
- **Log**: Records the event in the "Event Logs"
- **Email**: 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

**Configuring SMTP Server Settings**

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

**To configure SMTP server settings:**

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **System > SMTP Server**.

3. Configure the following SMTP Server settings:
   - **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

4. Click **Apply**.

### Configuring Email Recipients

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

**To configure email recipients:**

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **System > Email Recipients**.
3. Click **New Recipient**.

   The Add New Email Recipient screen appears.

4. Select the Enable check box.

5. Enter the desired email address.

6. Click **Apply**.

**NOTE**: Modify or delete an existing recipient by clicking the email address of the recipient from the list shown. The Configure Email Recipient screen appears where additional changes can be made.

**Configuring Trap Receivers**

**NOTE**: You can configure up to 10 (ten) SNMP trap receivers.

**To configure trap receivers:**

1. Log into the UPS Remote Management System.
For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **System > Trap Receivers**.

![Image of UPS Remote Management interface showing Trap Receivers screen]

3. Click **New Receiver**.

   The Add New Trap Receiver screen appears.
4. Select the Enable check box.

5. Enter the IP Address and Community.

6. Click **Apply**.

**NOTE:**
- Modify or delete existing receivers by clicking the IP Address of the receiver you wish to change from the list shown. The Configure Trap Receiver screen appears where changes can be made.
When the Middle Atlantic Power Manager connects to a UPS, the IP address of the host machine is automatically added to the list of trap receivers.

**Configuring Client Standby**

To configure client standby:

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **System > Client Standby**.
3. In the Force Negotiation field, select No or Yes as desired.

4. Click **Apply**.

**Configuring TCP/IP Settings**

**To configure TCP/IP settings:**

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **System > TCP/IP**.
3. The Current Configuration section of the screen displays the current IP address, subnet mask, gateway, and primary DNS server.

4. The DHCP section of the screen provides the following settings:
   - Select Enable DHCP and click **Apply** to activate DHCP.
     
     **NOTE:** After enabling DHCP, you can view your UPS-IPCARD values for the IP address, subnet mask, and gateway.
   - Select “Obtain DNS Address from DHCP” and your DNS will be provided by DHCP, if DHCP is already enabled.

5. When DHCP is disabled, you may use the Manual section of the screen to specify exact values as desired. Click **Apply** to commit the values.

**Configuring the HTTP Access Port**

To configure the HTTP access port:
1. Log into the UPS Remote Management System.

   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **System > HTTP Service**.

   ![Configuration Interface](image)

   3. Enter a port number for the TCP/IP port of the Hypertext Transfer Protocol (HTTP) in the Access Port field.

   The default is 80.

   **Configuring the SNMP Service**

   **To configure the SNMP service:**

   1. Log into the UPS Remote Management System.

   For more information, see “Logging into the UPS Remote Management System” on page 14.

   2. Click **System > SNMP Service**.
3. Configure the following SNMP Service settings:
   - Select the Allow Access checkbox to activate the SNMP.
   - Click Apply.

4. View the SNMP Access Control values as follows:
   - **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

**Configuring FTP Services**

The FTP server is used for upgrading firmware. For more information, see “Performing a Firmware Upgrade” on page 55.

**To configure FTP services:**

1. Log into the UPS Remote Management System.
   For more information, see “Logging into the UPS Remote Management System” on page 14.
2. Click **System > FTP Service**.
3. Select the Allow Access checkbox to enable access to the FTP server.

4. Enter the TCP/IP port of the FTP server. The default is 21.

Configuring the Temperature Scale Preference

To configure the temperature scale preference:

1. Log into the UPS Remote Management System.
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click **System > Preference**.
3. In the Temperature Scale drop-down, select the preferred unit of temperature as either Celsius or Fahrenheit.

4. Click Apply.

Viewing the About Screen

To view About screen information:

1. Log into the UPS Remote Management System.
   
   For more information, see “Logging into the UPS Remote Management System” on page 14.

2. Click System > About.
3. View the following information:

- **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**: The MAC address is also on the top of the Network Interface Card itself
RESTORING DEFAULT SETTINGS, PASSWORD RESET, AND FIRMWARE UPGRADES

Restoring Default Settings and Resetting Passwords

To reset the Middle Atlantic Network Interface Card to its default setting (including WEB login user name and password):

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 necessary after a reset, please do not lose or dispose of it.)
4. Reinstall the card into the expansion port.
5. Wait until the Green LED (RX/TX) is flashing (the ON/OFF flashing frequency is approximately one second).
6. Remove the card from the expansion port.
7. Reinstall the jumper on the reset pins.
8. Reinstall the card into the expansion port.
9. Reinstall and tighten the retaining screws.

Performing a Firmware Upgrade

To perform a firmware upgrade:

1. Ensure that the UPS-OLIPCARD to be upgraded is correctly installed in the UPS and that the UPS is powered on.
2. Connect the UPS-OLIPCARD to the network and use the “UPS-OLIPCARD Setup Utility” to locate and identify the card to be upgraded. See the following screenshot.
NOTE:

- The UPS-OLIPCARD Setup Utility will identify all UPS-OLIPCARDs that are on the same subnet. Ensure that you have identified the correct card you wish to upgrade before proceeding.

- If the computer and the UPS-OLIPCARD to be upgraded are not on the same subnet, the default gateway must be configured to correctly route between the two subnets.

3. Update the following two files:
   - `mapsnmpfw_XXX.bin`
   - `mapsnmpdata_XXX.bin`

   **NOTE:**
   - The ‘XXX’ refers to the version of firmware and the version number of both files must match in order for the UPS-OLIPCARD to function.
   - Obtain the most recent firmware version by contacting Middle Atlantic Products technical support at 1-800-266-7225.

4. Create a sub-directory named MAP at the root level of the installing PC and copy the two firmware update files into that directory, i.e. C:\MAP\.

5. Update `mapsnmpfw_XXX.bin` by performing the following steps:
a. Open a command prompt.

b. Type `C:` and press Enter.

c. Type `ftp xxx.xxx.xxx.xxx` and press Enter.

   **NOTE:** The ‘xxx.xxx.xxx.xxx’ is the IP Address of the UPS-OLIPCARD to be updated.

d. When prompted enter your username and password.

   **NOTE:** The default username and password is `admin` and `admin`, respectively.

e. Type `bin`, and press Enter.

f. Type `put c:\map\mapsnmpfw_XXX.bin` and press Enter.

g. Type `bye` after the update has completed.

   **NOTE:** If `put c:\map\mapsnmpfw_XXX.bin` was not successful, type `ftp -w:16384 xxx.xxx.xxx.xxx.xxx.xxx` and repeat the step 5 sub-steps again.

6. Update `mapsnmpdata_XXX.bin` by performing the following steps:
a. Open a command prompt.
b. Type `c:` and press Enter.
c. Type `ftp xxx.xxx.xxx.xxx` and press Enter.
   
   **NOTE:** The ‘xxx.xxx.xxx.xxx’ is the IP Address of the UPS-OLIPCARD to be updated.
d. When prompted enter your username and password.
   
   **NOTE:** The default username and password is `admin` and `admin`, respectively.
e. Type `bin`, and press Enter.
f. Type `put c:\map\mapsnpdada_XXX.bin` and press Enter.
g. Type `bye` after the update has completed.
   
   **NOTE:** If `put c:\map\mapsnpdada_XXX.bin` was not successful, type `ftp -w:16384 xxx.xxx.xxx.xxx.xxx` and repeat the step 6 sub-steps again.

7. Clear the current firmware version on your UPS-OLIPCARD by performing the following steps:
   a. Disconnect your UPS-OLIPCARD from the network.
b. Remove your UPS-OLIPCARD from the UPS
c. Remove the jumper from the pins
   
   **NOTE:** Remembering which pair of pins the jumper was attached to so you can reattach later on in this procedure.
RESTORING DEFAULT SETTINGS, PASSWORD RESET, AND FIRMWARE UPGRADES

d. Replace your UPS-OLIPCARD back into the UPS.

e. Wait for the green LED on the front of the card to start blinking (after approximately 10 seconds).

f. Remove your UPS-OLIPCARD from the UPS and replace the jumper.

g. Replace your UPS-OLIPCARD back into the UPS.

h. Reconnect the UPS-OLIPCARD to the network.

Confirming Firmware Updates

To confirm an updated firmware version:

1. Open a browser and go to the IP Address of your UPS-OLIPCARD

   The current firmware version appears on the Login screen as follows;
## TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
</table>
| Unable to configure the IP address on the management card using method 1 or method 2 in “Configuring the IP Address” on page 11. | 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 and ensure that the UPS power is on.  
   - If yellow LED is off:  
     a. Ensure the network connection is valid  
     b. Ensure the PC being used is on the same physical network as Network Interface Card. |
| Unable to Ping the IP address of the management card.                  | 1. Verify the IP address of the network interface card. Refer to the Appendix for selecting an IP address.  
   2. If the PC being used is on a different physical network as the network interface card, verify the setting of the subnet mask and the IP address of the gateway. |
| Forgotten username and/or password                                     | Refer to “Restoring Default Settings and Resetting Passwords” on page 55.                                          |
APPENDIX: IP ADDRESS SETTINGS FOR UPS-OLIPCARD

All devices on a computer network need to have an IP address. Each device’s IP address is unique and 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.

NOTE: You may need to contact your network administrator to obtain an available IP address.

Locating the Subnet on Your UPS-OLIPCARD

One way to determine the range of possible IP addresses is to view the network configuration on a workstation from its command prompt.

To locate the subnet of your UPS-OLIPCARD:

1. Open a command prompt.
2. Type `ipconfig/all` and press Enter.

The network information appears:

```
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
DNS Servers..............................: 211.20.71.202; 168.95.1.1
```

Selecting an IP Address for Your UPS-OLIPCARD

To select an IP address for your UPS-OLIPCARD:

1. Verify the IP address for the computer and the UPS-OLIPCARD belong to the same subnet. Referring to the network information from the previous topic, the possible IP Address for the Network Management Card could be `192.168.20.*`.

NOTE: The asterisk refers to 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.
2. Type `ping 192.168.20.240` in the command prompt to see if that arbitrary address is being used. If the request times out as follows, the address is most likely not used and is available for use on your UPS-OLIPCARD.

Pinging 192.168.20.240 with 32 bytes of data:

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

Any other response indicates that the IP address selected is already being used and is therefore unavailable. If that is the case for your selected IP address, choose another address and repeat the Ping command until an available address is found. The following response indicates that 192.168.20.240 is being used:

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
WARRANTY

Middle Atlantic Products, Inc. (the "Company") warrants the RackLink Device product to be free from defects in material or workmanship under normal use and conditions for a period of (3) three years from date of shipment by the Company.

The Company's entire liability to the purchaser, and the purchaser's (or any other party's) sole and exclusive remedy, under this warranty shall be limited, at the Company's option, to either (a) return of and refund of the price paid for, or (b) repair or replacement at the Company's factory of the products purchased, or any part or parts thereof, which the Company has determined to be defective after inspection thereof at the Company's factory. This warranty does not cover damage due to acts of God, accident, misuse, abuse or negligence by parties other than the Company, or any modification or alteration of the products. In addition, this warranty does not cover damage due to improper handling, assembly, installation or maintenance.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF THE PRODUCTS PURCHASED, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE COMPANY'S LIABILITY TO THE PURCHASER (OR ANY OTHER PARTY) HEREUNDER, IF ANY, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCTS PAID TO THE COMPANY.

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