

APC AP9619

APC AP9619 UPS Network Management Card with Environmental Monitoring User Manual

Model: AP9619

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the APC AP9619 UPS Network Management Card with Environmental Monitoring. This card allows for direct network connectivity and management of your Uninterruptible Power Supply (UPS) systems, eliminating the need for a proxy server. It offers enhanced reliability and features for monitoring and control.

Important Safety Warning: The solder used in this product contains lead, a chemical known to the State of California to cause birth defects and other reproductive harm. Please wash hands after handling internal components and circuit boards and avoid inhalation of fumes if heating the solder.

2. PRODUCT OVERVIEW

The APC AP9619 Network Management Card is a plug-in module designed to provide remote management capabilities for compatible APC UPS devices. It integrates directly into the UPS's expansion slot, offering a dedicated IP address for network access. This enables comprehensive monitoring and control of your UPS infrastructure.



Figure 2.1: Angled view of the APC AP9619 Network Management Card, showing its compact design and connectors.

Key Features:

- Direct network connectivity with a dedicated IP address.
- Remote management via web browser, Telnet, or SSH.
- Environmental monitoring capabilities (requires compatible probes).
- Notification features for critical events.
- Graceful unattended shutdown for protected servers during extended power outages.
- Compatible with Smart-UPS, Matrix-UPS (with internal expansion slot), Silcon (with AP9604S), Symmetra, and Symmetra PX UPS models.

3. SETUP AND INSTALLATION

The AP9619 card is a plug-in module designed for easy installation into compatible APC UPS devices. Ensure the UPS is powered off and disconnected from the main power source before beginning installation to prevent electrical hazards.

Installation Steps:

1. Locate the SmartSlot expansion bay on your compatible APC UPS.
2. Carefully insert the AP9619 Network Management Card into the SmartSlot until it is firmly seated.
3. Secure the card using any retaining screws or clips provided by the UPS.
4. Connect an Ethernet cable (10Base-T or 100Base-TX) from the card's network port to your network switch or router.
5. If using environmental monitoring, connect the appropriate probe to the designated probe port on the card.
6. Reconnect the UPS to the main power source and power it on.

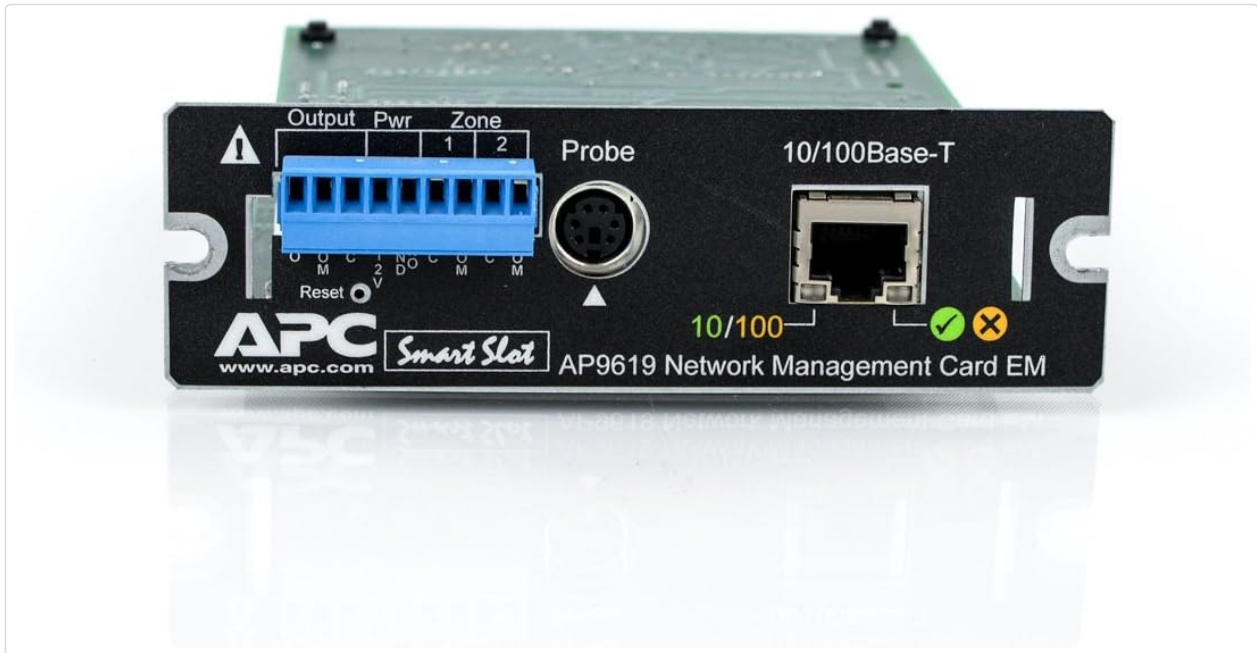


Figure 3.1: Close-up of the AP9619 front panel, highlighting the 10/100Base-T Ethernet port, Probe port, and Output/Pwr/Zone connectors.

Initial Configuration:

Upon initial power-up, the card will acquire an IP address via DHCP if available. You can then access the card's web interface by entering its IP address into a web browser. Alternatively, Telnet or SSH can be used for command-line access. Refer to the APC documentation for detailed network configuration and security settings.

4. OPERATING INSTRUCTIONS

Once installed and configured, the AP9619 card provides robust management capabilities for your UPS.

Remote Monitoring and Control:

- **Web Interface:** Access the card's embedded web server via a standard web browser for a graphical user interface to monitor UPS status, configure settings, and view event logs.
- **Telnet/SSH:** For command-line access and scripting, connect via Telnet or SSH to perform advanced configurations and diagnostics.
- **Environmental Monitoring:** If an environmental probe is connected, monitor temperature, humidity, and other environmental conditions directly through the card's interface.

Notification Features:

The card can be configured to send notifications for various events, such as power outages, low battery, UPS self-test failures, or environmental threshold breaches. These notifications can be sent via email, SNMP traps, or other configured methods, ensuring you are promptly informed of critical issues.

Graceful Shutdown:

In the event of an extended power outage, the AP9619 can initiate a graceful shutdown of connected servers and systems, preventing data loss and ensuring an orderly system power-down. This feature requires proper configuration with PowerChute Network Shutdown software or similar solutions on the protected servers.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your APC AP9619 Network Management Card.

- **Firmware Updates:** Periodically check the APC website for firmware updates for the AP9619 card. Keeping the firmware current ensures you have the latest features, security patches, and bug fixes.
- **Physical Inspection:** Occasionally inspect the card and its connections for any signs of damage, loose cables, or dust accumulation.
- **Cleaning:** If necessary, gently clean the card's exterior with a soft, dry cloth. Avoid using liquids or abrasive cleaners.
- **Configuration Backup:** Regularly back up your card's configuration settings. This allows for quick restoration in case of a reset or replacement.

6. TROUBLESHOOTING

This section provides guidance for common issues you might encounter with the AP9619 Network Management Card.

Common Issues and Solutions:

- **Card Not Responding:**
 - Verify the card is properly seated in the SmartSlot.
 - Check the network cable connection and ensure network activity lights are present.
 - Ensure the UPS is powered on.
 - Try power cycling the UPS (if safe to do so).
- **Cannot Access Web Interface:**
 - Confirm the IP address of the card. Use network scanning tools if unknown.
 - Ensure your computer is on the same network segment as the card.
 - Check firewall settings on your computer and network.
- **Forgotten Password:**
 - A serial cable adapter may be required to connect directly to the card for a password reset. Refer to APC's official documentation for the specific procedure for your firmware version.
- **Environmental Probe Not Detected:**

- Ensure the probe is securely connected to the probe port.
- Verify the probe is compatible with the AP9619 card.

For more complex issues or advanced diagnostics, please refer to the official APC support resources or contact APC technical support.

7. SPECIFICATIONS

The following table outlines the key technical specifications for the APC AP9619 UPS Network Management Card.

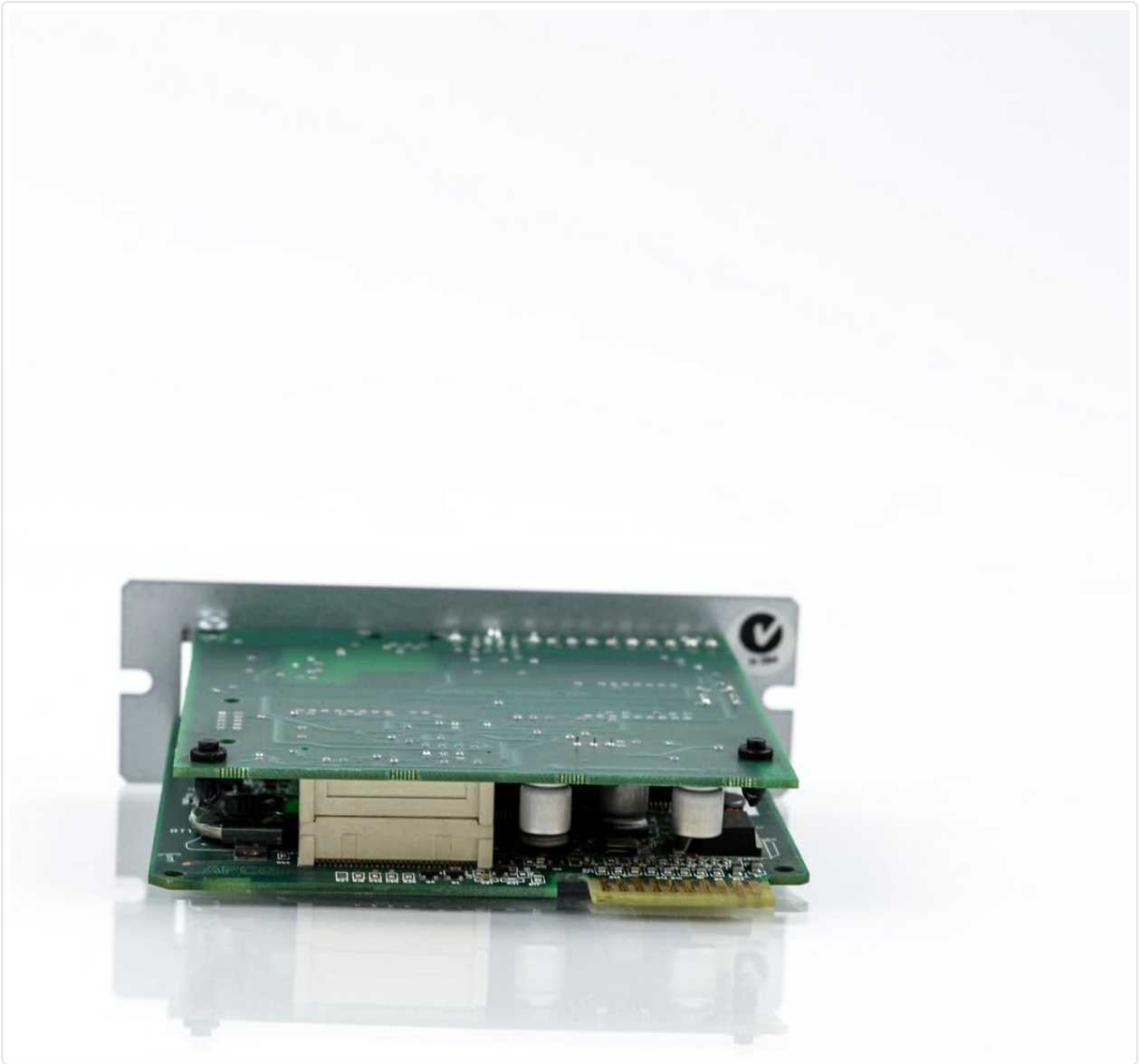


Figure 7.1: Side profile of the AP9619 card, illustrating its compact form factor.

Feature	Specification
Model Number	AP9619
Device Type	Remote Management Adapter
Form Factor	Plug-in Module
Dimensions (LxWxH)	4.25 x 4.76 x 1.5 inches (10.8 x 12.1 x 3.8 cm)

Feature	Specification
Item Weight	1 pound (0.45 kg)
Cabling Type	Ethernet 10Base-T, Ethernet 100Base-TX
Data Link Protocol	Ethernet
Data Transfer Rate	100 Megabits Per Second
Compatible Devices	UPS (Smart-UPS, Matrix-UPS, Silcon, Symmetra, Symmetra PX)
Manufacturer	American Power Conversion Corp.
UPC	731304203704



Figure 7.2: Rear view of the AP9619 card, displaying the product label with model and MAC address information.






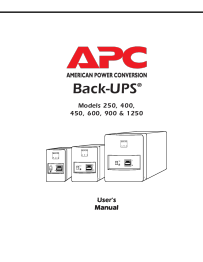
8. WARRANTY AND SUPPORT

For warranty information, please refer to the official APC website or the documentation included with your UPS system. APC provides various support resources, including online knowledge bases, FAQs, and technical support contact options.

Manufacturer: American Power Conversion Corp.

Geographical Restriction Notice: This product cannot be shipped to Massachusetts or the District of Columbia (Washington, D.C.).

Related Documents - AP9619

	<p>Assigning IP Address to APC Network Management Card Without Software</p> <p>A technical guide detailing how to assign an IP address to an APC Network Management Card (NMC) using command-line tools like ARP and Ping, bypassing the need for proprietary APC software. This guide covers APC SmartUPS models and provides step-by-step instructions for network configuration.</p>
	<p>APC AP9608 Out-of-Band Management Card User's Guide</p> <p>Comprehensive user's guide for the APC AP9608 Out-of-Band Management Card, detailing setup, configuration, status monitoring, control options, event logging, and environmental monitoring for APC Smart-UPS and Matrix-UPS systems.</p>
	<p>APC Smart-UPS SRT 10000VA 208V Technical Specifications</p> <p>Detailed technical specifications for the APC Smart-UPS SRT 10000VA 208V, including output, input, battery, communication, physical, environmental, and conformance details. Model SRT10KXLT.</p>
	<p>APC Smart-UPS User Manual: 1000VA/1500VA, 750XL/1000XL Tower UPS</p> <p>Comprehensive user manual for APC Smart-UPS Tower models, covering installation, operation, configuration, troubleshooting, and regulatory information for uninterruptible power supplies.</p>
	<p>APC</p> <p>APC by Schneider Electric UPS</p>
	<p>APC Back-UPS User's Manual: Models 250-1250</p> <p>Comprehensive user's manual for APC Back-UPS uninterruptible power source models 250, 400, 450, 600, 900, and 1250. Covers safety, installation, operation, troubleshooting, and specifications.</p>