UPS Network Management Card 2
Frequently Asked Questions

Summary

UPS Network Management Cards allow for secure monitoring and control of an individual APC UPS via a web browser, command line interface, or SNMP.

This FAQ document answers commonly-asked questions about UPS Network Management Card 2 (NMC 2) SmartSlot Cards, their firmware features and benefits. It also highlights the differences between the UPS Network Management Card 1 (AP9618) and UPS Network Management Card 2 (AP9630 and AP9631) options.

Questions

1. **What are the main benefits of the UPS NMC 2?**

- RADIUS based remote authentication support, in addition to a selection of security protocols including SSL, SCP, for secure monitoring and control of an individual APC UPS via a web browser, Command Line interface, or SNMP.
- Increased security (up to 2048 bit encryption).
- The user interface and documentation is available in the following languages:
  - o Chinese (simplified)
  - o English
  - o French
  - o German
  - o Italian
  - o Japanese
  - o Korean
  - o Portuguese
  - o Russian
  - o Spanish
- IPv6 Ready.
- Improved processing speeds in comparison to UPS Network Management Card 1.
- Console port for local UPS NMC 2 configuration.
- UPS NMC 2 feature enhancements easily available via firmware upgrade.

Complete list of differences with the UPS Network Management Card 1 is covered at the end of this FAQ.

2. **What features are new to UPS NMC 2 firmware?**

Features	v5.1.x	v6.0.6/6.0.7/ 6.1.1	v6.2.0
Smart Battery management with smart battery pack monitoring support (SRT Smart-UPS only - launched in June 2014)	✗	✗	✓
Streaming Firmware upgrade – removing the need to delete language packs to carry out UPS firmware upgrades	✗	✗	✓
Supports simultaneous web browser access for up to 8 users and network command line interface for up to 3 users	✗	✓	✓
Enable/disable Green mode (in supported SMT, SMX Smart-UPS)	✗	✓	✓
Predictive Battery replacement by reporting predicted battery failure status (SMT, SMX, SRT Smart-UPS only)	✗	✓	✓
Set the local language on the UPS LCD via the UPS NMC (in supported SMT, SMX Smart-UPS)	✗	✓	✓
LCD lock-out for SMT, SMX units from the UPS NMC interface	✗	✓	✓

Kindly note the latest supported firmware version for the UPS NMC 1 (AP9617, AP9618, AP9619) is v3.7.2. There are no further firmware updates planned for these Cards. V3.7.2 is available for download from the Software/Firmware downloads webpage: www.apc.com/tools/download/index.cfm.

3. **What accessories are supported by the UPS NMC (dry contacts, environment sensors, expansion chassis)?**

For UPS's that support Expansion Chassis (AP9600/AP9604BLK), the UPS NMC 2 (AP9630, AP9631 and their derivative offers) can be installed to provide additional SmartSlot interface(s).

UPS NMC 2 with Environmental monitoring (AP9631 and its derivative offers) supports a total of any 2 accessories or sensors per card:
AP9335T – APC Temperature Sensor (This accessory ships in the box and is also sold separately).
AP9335TH – APC Temperature and Humidity Sensor (This accessory is sold separately).
AP9810 – APC Dry Contact I/O Accessory (It provides 2 input contacts and 1 output relay. This accessory is sold separately).

For a complete list of accessories supported by the UPS NMC, refer to k-base #**FA230777 at** www.apc.com/support .

4. Where can I try out the UPS NMC 2?

Go to http://testdrive.apc.com and click on either "Network Management Card 2" or "NMC 2 w/ Env Monitor" located on the left sidebar of the web page to experience managing a UPS remotely via a web browser. In addition, to test drive the UPS NMC 1, please click on "NMC w/ Env Monitor & Modem" link.

5. Is the UPS NMC 2 compatible with all Single Phase SmartSlot UPSs?

Yes.

6. Does the UPS NMC 2 integrate with StruxureWare Data Center Expert and InfraStruxure Manager?

Yes, this is a seamless integration.

7. Does the UPS NMC 2 offer out of band management?

UPS NMC 2 does not include a modem. The AP9618 (UPS NMC 1) offers dial-in and dial-out out of band management, but does not support the next generation Smart-UPS including SMT, SMX, SURTD and SRT range of UPS. For further details on next generation Smart-UPS please refer to k-base #**FA230533** @ www.apc.com/support.

8. Can the UPS NMC 2 be used with PowerChute Business Edition using serial/USB communication?

No, this is not a supported configuration on either the UPS NMC 1 or the UPS NMC 2. For network-based graceful server shutdown, please use PowerChute Network Shutdown in conjunction with your UPS Network Management Card.

9. I received a UPS which included a UPS NMC 1; can I upgrade to a UPS NMC 2?

Please contact your APC sales representative/account manager within 30 days of purchase and they can process this for you, this will be done via CMA (Credit Material Authorization) and requires a copy of the invoice. If you purchased through a reseller, you will need to contact the reseller to determine what their policy is. The reseller has the option of contacting APC sales to determine the best course of action.

10. What is the end of sales date for the UPS NMC with Environmental Monitoring & Out of Band Management?

There is no planned end of sales date for APC's current offering (AP9618) for Environmental Monitoring & Out of Band Management.

11. How do UPS NMC 2 features compare with that of the UPS NMC 1?

			with Environmental Monitoring		w/ Environmental Monitoring & Out of Band Management
Features	**AP9617** (discontinued)	**AP9630**	**AP9619** (discontinued)	**AP9631**	**AP9618**
UPS Network Management Card	**NMC 1**	**NMC 2**	**NMC 1**	**NMC 2**	**NMC 1**
Remote UPS Management					
Fault & power event notification	✓	✓	✓	✓	✓
Reboot UPS remotely	✓	✓	✓	✓	✓
Sequenced load shedding		✓		✓	
Sequenced start up		✓		✓	
On demand load shedding		✓		✓	
On demand restart		✓		✓	
Scheduled load shedding		✓		✓	
Schedule start up		✓		✓	
Event and Data logging	✓	✓	✓	✓	✓
Enhanced Logging		✓		✓	
Multi-user support		✓		✓	

Multiple Server Shutdown (in conjunction with PowerChute Network Shutdown)					
Best in Class Operating System Support	✓	✓	✓	✓	✓
Run command file	✓	✓	✓	✓	✓
Schedule shutdown	✓	✓	✓	✓	✓
Sequenced server shutdown	✓	✓	✓	✓	✓
Browser Accessible	✓	✓	✓	✓	✓
Supports Parallel and Redundant UPS configurations	✓	✓	✓	✓	✓
Management Options					
Browser Accessible	✓	✓	✓	✓	✓
Supports 10 Languages: Chinese (Simplified), English, French, German, Italian, Spanish, Japanese, Korean, Portuguese, Korean		✓		✓	
Telnet Menu-driven interface	✓		✓		✓
Telnet Command Line Interface (CLI)		✓		✓	
Temperature notifications & actions			✓	✓	✓
Optional humidity notifications & actions			✓	✓	✓
Optional customizable input contacts			✓	✓	✓
Optional customizable output relays			✓	✓	✓
Out of band management					✓
Syslog	✓	✓	✓	✓	✓
Debug Dump for Tech Support		✓		✓	
Integrates with StruxureWare Data Center Expert/ InfraStruXure Manager	✓	✓	✓	✓	✓
Enterprise management system compatible SNMPv1	✓	✓	✓	✓	✓
SNMPv2	✓	✓	✓	✓	✓
SNMPv3	✓	✓	✓	✓	✓
Security					
Password Security	✓	✓	✓	✓	✓
3-tier user access (read only, device and administrator)	✓	✓	✓	✓	✓
RADIUS support	✓	✓	✓	✓	✓
SMTP Authentication - e-mail	✓	✓	✓	✓	✓
HTTPS	✓	✓	✓	✓	✓
IPv6 Ready		✓		✓	
SSH Up to 1024 bit Public/Private Key Encryption	✓		✓		✓
SSH Up to 2048 bit Public/Private Key Encryption		✓		✓	
Installation/Configuration					
Mass Configuration Executable	✓	✓	✓	✓	✓
Network Time Protocol	✓	✓	✓	✓	✓
Compatible with all SmartSlot enabled UPSs		✓		✓	
Total Cost of Ownership					
Enables UPS firmware upgrades		✓		✓	
NMC feature enhancements easily available via firmware upgrade		✓		✓	