

Network Management Card

~Quick Installation Guide~

Network Management Card Hardware Installation:

1. Insert Card into the slot provided by UPS,
put the screws and tighten them.
2. Procure a workstation
(Windows 9x, Me, 2000, XP or later installed).
3. Use the RJ45 to DB9 female serial cable that provided
from package connects between the NMC COM port
and the COM port on the workstation.

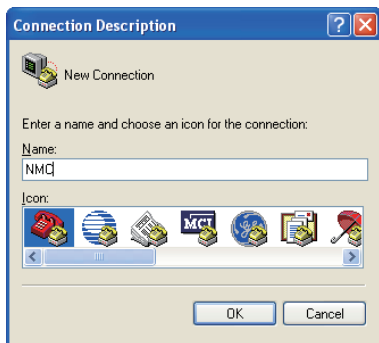


Configuring Network Management Card via Serial Port

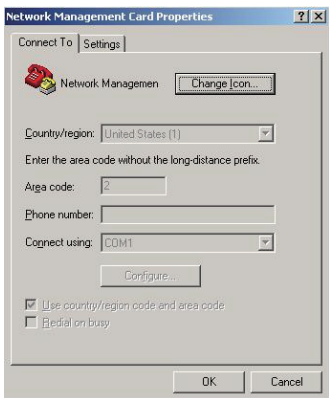
1. In Microsoft Windows click
Start -> Programs -> Accessories -> Hyper terminal.



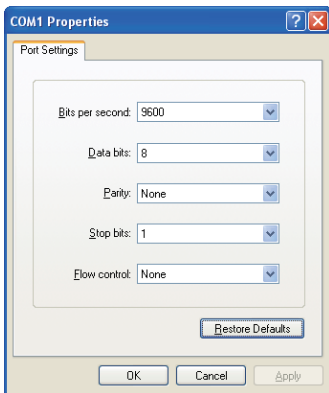
2. Enter a name and click OK.



3. Select the correct COM port and click OK.



4. Configure the port setting as 9600 bps, 8 data bits, None (parity), 1 Stop bit and None Flow Control. Then click OK.



5. Enter the default password “password” and the Network Management Card Configuration Menu will display on the screen.

```
NMC Version x.x.x.x
+=====+
|           Network Management Card Configure Menu           |
+=====+

Password:_
```

6. Enter “1” to enter the Agent Configuration Menu.

```
NMC Version x.x.x.x
+=====+
|           Network Management Card Configure Menu           |
+=====+
 1. IP Configurations
 2. Pass Through
 3. Reset Configuration to default
 4. Restart
 5. Password
 0. Exit

Please Enter Your Choice -> _
```

7. Assign an IP address and set the correct Subnet Mask; Gateway; DHCP.

```
+=====+
|                               IP Configure Menu                               |
+=====+
MAC Address      : 00:20:85:F7:10:18
1. IP address    : 172.18.127.111
2. Subnet mask   : 255.255.255.0
3. Gateway       : 172.18.127.1
4. DHCP          : Enabled
5. Primary DNS address : 172.18.121.17
6. Secondary DNS address: 151.110.232.21
7. IPv6 Configure
0. Return to previous menu

Please Enter Your Choice :_
```

Control the Network Management Card/UPS via Web Browser

Start your Web Browser; enter the Network Management Card IP address in the Address text box, the Network Management Card Web page will be shown on the Browser.

Some setting pages need to enter the user name and password to log in. The default user name is “root” and default password is “password”.

The screenshot shows a Microsoft Internet Explorer window with the address bar displaying <http://172.16.127.52/>. The page title is "NETWORK MANAGEMENT CARD FOR UPS". In the top right corner, it says "ON-LINE Location: Office 15/11/2011 11:18:45".

The main content area is divided into a left sidebar menu and a main display area. The sidebar menu includes the following items:

- UPS Monitoring
 - UPS Status
 - UPS Alarm
 - UPS Parameters
 - UPS Powered Devices
- UPS Identification
- UPS Management
 - UPS Battery Test
 - UPS Battery Test Schedule
 - SNMP TRAP Receivers
 - UPS Configuration
 - UPS Control
 - UPS Shutdown
 - Shutdown Schedule
- Settings
 - NIC System
 - Reboot System
 - Date and Time
 - Email Notification
 - Firmware Upload
 - File Management
- Logs
 - UPS Log
 - Event Log
 - System Log

The main display area shows the "UPS Monitoring - UPS Status" page. It contains a table with the following data:

UPS Monitoring - UPS Status		help
UPS Status		
UPS Temperature 34.9 °C		
Input		
Voltage	224.5 V	
Frequency	50.0 Hz	
Output		
Load(%)	0	
Voltage	221.5 V	
Frequency	50.1 Hz	
Current	0.3 A	
Watt	0 W	
Battery		
Status	Battery Normal	
Capacity(%)	100	
Voltage	40.6 V	
Time On Battery	0 S	
Backup Time	20880 S	

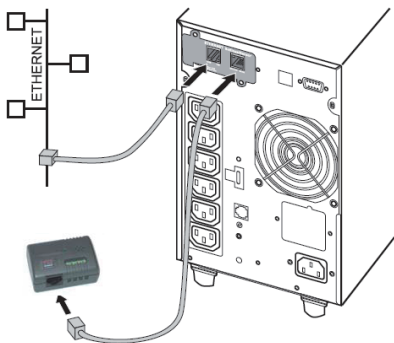
The status bar at the bottom of the browser shows the address http://172.16.127.52/monitoringups_status.html and the text "Local intranet".

EMP Connection(optional)

The Environment Monitor Probe is a NMC option. It monitors the temperature and humidity of the UPS environment, and check the states of two external contacts. It can also send alarms (email, trap) by pre-set thresholds. Connection is made via the setting port on the NMC, the EMP is detected automatically. Configuration could be made via UPS configuration menu.

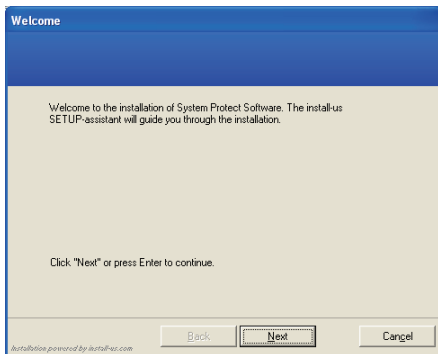
The screenshot shows a web browser window titled "Network Management Card - Microsoft Internet Explorer" with the address "http://172.18.127.52". The main content area is titled "NETWORK MANAGEMENT CARD FOR UPS" and "ON-LINE Location: Office 18/11/2011 11:29:41". The left sidebar contains a navigation menu with categories: "UPS Monitoring" (UPS Status, UPS Alarm, UPS Parameters, UPS Powered Devices, UPS Identification), "UPS Management" (UPS Battery Test, UPS Battery Test Schedule, SNMP TRAP Receivers, UPS Configuration, UPS Control, UPS Shutdown, Shutdown Schedule), "Settings" (NMC System, Reboot System, Date and Time, Email Notification, Firmware Upload, File Management), and "Logs" (UPS Log, Event Log, System Log). The main panel is titled "UPS Management -> UPS Configuration" and includes a "help" link. It contains two sections: "UPS" with "Over Load Set Point(%)" set to 90 and "Over Temperature Set Point(°C)" set to 50, and a "Save" button; and "EMP" with a dropdown menu set to "Auto". The "EMP" section includes a table with columns "Sensor", "Description", "Low Point", and "High Point". The table has four rows: "Temperature(°C)" with "EMP Temperature", "Humidity(°C)" with "EMP Humidity", "Alarm-1" with "Alarm-1", and "Alarm-2" with "Alarm-2". The "Low Point" and "High Point" columns have input fields and dropdown menus. The "Low Point" for "EMP Temperature" is 115, and for "EMP Humidity" is 60. The "High Point" for "EMP Temperature" is 50, and for "EMP Humidity" is 60. The "Alarm-1" and "Alarm-2" rows have "Not Used" in the "Low Point" column and a dropdown menu in the "High Point" column. A "Save" button is at the bottom of the "EMP" section.

Sensor	Description	Low Point	High Point
Temperature(°C)	EMP Temperature	115	50
Humidity(°C)	EMP Humidity	60	60
Alarm-1	Alarm-1	Not Used	
Alarm-2	Alarm-2	Not Used	

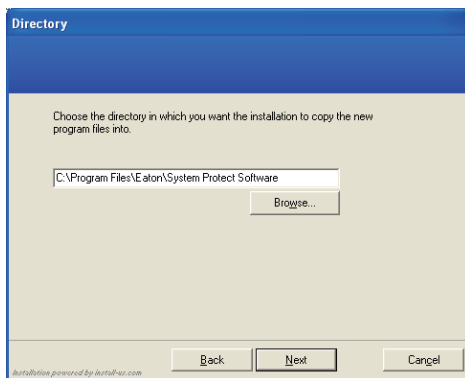


System Protect Software (Windows) Setting

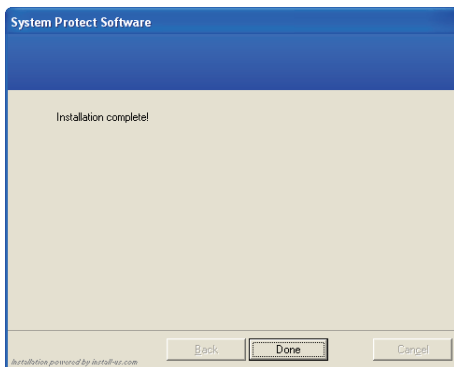
1. Double click the setup.exe



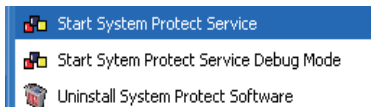
2. Display install software screen



3. Install complete

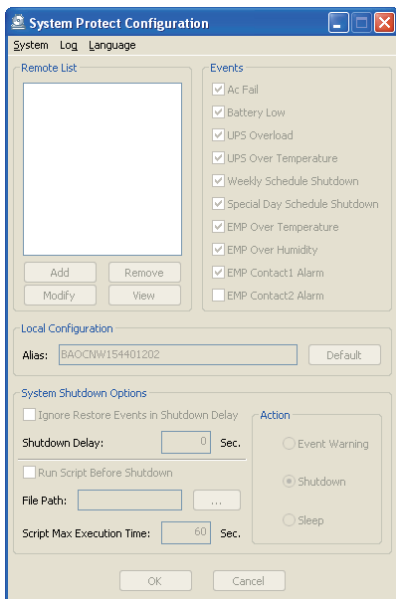


4. Start up from window (start->All Programs->System Protect Software->Start System Protect Service)

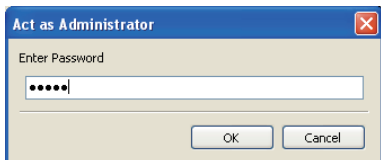


5. Setting the SPS.

Right click the SPS icon shown in system tray and select the "Configuration"

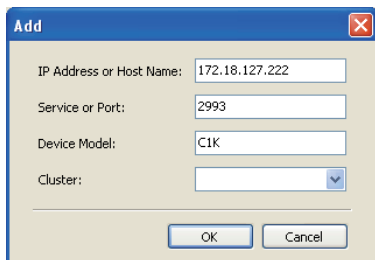


System->act as administrator, and enter the default password “admin”.

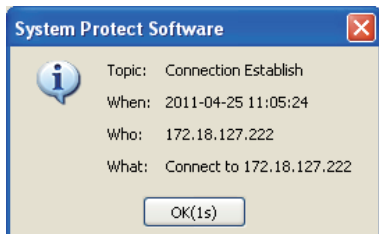


6. Add NMC

Click “Add” button, and then entering the popped window. Enter the NMC IP address and device model.



The connection between SPS and NMC has established.



Other settings:

The screenshot shows the 'System Protect Configuration' window. It has a title bar with a gear icon and the text 'System Protect Configuration'. Below the title bar are three tabs: 'System' (selected), 'Log', and 'Language'. The window is divided into several sections. The 'Remote List' section on the left contains a list with one entry: '172.18.127.222(2993) - C1k'. Below the list are buttons for 'Add', 'Remove', 'Modify', and 'View'. The 'Events' section on the right lists eight events, all of which are checked: 'Ac Fail', 'Battery Low', 'UPS Overload', 'UPS Over Temperature', 'Weekly Schedule Shutdown', 'Special Day Schedule Shutdown', 'EMP Over Temperature', 'EMP Over Humidity', 'EMP Contact1 Alarm', and 'EMP Contact2 Alarm'. The 'Local Configuration' section below has an 'Alias' field containing 'BAOCNW154401202' and a 'Default' button. The 'System Shutdown Options' section at the bottom includes checkboxes for 'Ignore Restore Events in Shutdown Delay' and 'Run Script Before Shutdown'. The 'Shutdown Delay' is set to '120 Sec.' and the 'Script Max Execution Time' is set to '60 Sec.'. There is also a file path field and a button with three dots. To the right of these options is an 'Action' section with three radio buttons: 'Event Warning', 'Shutdown' (which is selected), and 'Sleep'. At the bottom of the window are 'OK' and 'Cancel' buttons.

System Protect Configuration

System Log Language

Remote List

- 172.18.127.222(2993) - C1k

Add Remove Modify View

Events

- ☒ Ac Fail
- ☒ Battery Low
- ☒ UPS Overload
- ☒ UPS Over Temperature
- ☒ Weekly Schedule Shutdown
- ☒ Special Day Schedule Shutdown
- ☒ EMP Over Temperature
- ☒ EMP Over Humidity
- ☒ EMP Contact1 Alarm
- ☒ EMP Contact2 Alarm

Local Configuration

Alias: BAOCNW154401202 Default

System Shutdown Options

☐ Ignore Restore Events in Shutdown Delay

Shutdown Delay: 120 Sec.

☐ Run Script Before Shutdown

File Path: ...

Script Max Execution Time: 60 Sec.

Action

- ☐ Event Warning
- ☒ Shutdown
- ☐ Sleep

OK Cancel