AUTOPING & POWER REBOOT

Each power outlet can be configured to run Autoping and reboot. Please use the web interface to complete the settings.

SNMP AND TRAP

By default, SNMP agent and TRAP are disabled. Default community string is "public". To obtain a copy of SNMP MIB files, open the device web page. Down load the MIB file by clicking "get mib file" at Network Setting" web page.

SAVE/LOAD SETTINGS

Saving and reloading system configuration data file is done by running a small utility program on a PC. This operation requires network connection.

- Download "synCfg.exe" by visiting www.synaccess-net.com/support
- Run the program at DOS prompt: "syncfg.exe –h"

FIRMWARE UPGRADING

The system is firmware upgradable via network. Please contact us or visit our web site for upgrading instructions and firmware version information.

PROGRAMMING INTERFACING

The unit can be easily managed by using direct TCP or serial port interfacing.

- Using Telent Port: default port # is 23.
  Format: *CmdCode,Arg1,Arg2*
- For S version, using HTTP/HTTPS
  *http://my_IP_addr/cmd.cgi?**cmdCode,Arg1,Arg2***

Command List

Command	Code	Arg 1	Arg 2
Login	$A1	ID	PWD
Logout	$A2		
Set Outlet to ON/OFF	$A3	Port#	V (1-ON; 0-OFF)
Reboot	$A4	Port#	
Get Outlet Status	$A5		
Status Return	$A5	xxxx,cccc,cccc,tt Or xxxx,cccc,tt Each "x" denotes an outlet state ("1" denotes ON; "0" for OFF). The most right "x" for relay1. "c" denotes AC current draw (amp) and "t" for temperature (c).	
Set All Outlet ON/OFF	$A7	V (1-ON; 0-OFF)	
Return Code	$A0 (OK)		
Return Code	$AF (Failed)		
Unknown Code	$AF		

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For *net*Commander™ NPC-22T or NPC88U

How to start:

1) **Use a straight-thru Ethernet cable connect the unit to your network:**

   By default, DHCP is disabled. The static IP address is 192.168.1.100. Use a WEB or Telnet program to configure the unit. The default ID/Password is admin/admin. If you need to enable the DHCP, please read "DEFAULT SETTINGS" section.

2) **Use a crossover Ethernet cable to connect to a PC directly:**

   The static IP address for the unit is 192.168.1.100. Make sure your PC IP address is on the same subnet. 192.168.1.x. Use WEB or Telnet program to configure the unit.

3) **Use a serial cable to connect the unit and a PC:**

   Run a Terminal Program on the PC to configure the unit. The serial port settings are 9600-8-N-1. Type command "help" or "?" to view a list of command.

Command Prefix Symbol:

A control command to the system proceeds with a prefix letter. The prefix letter must be the first letter on a line entry. If the conditions are not met, the letters being typed are forwarded to an active user serial port without local terminal echo. The default prefix letter is "/". It may be changed if there is a conflict with your applications.

Communicating with User Serial Ports:

For both NPC22 and NPC88, communicating to serial ports are done via system TCP port (default port # is 23) or Master serial port. Send command "/sset n" to select active serial port.

For NPC22, Open TCP port # 2001 and 2002 for direct communication. TCP port 2001 and 2002 are assigned to serial port 1 and 2.

DEFAULT SETTINGS

The system is shipped with factory default settings. The default settings for the Local Master serial port are: 9600, 8 data bits, no parity, 1 stop bit, and no hardware handshaking (Flow Control). For the Ethernet port, DHCP is disabled. Static IP address 192.168.1.100, Submask 255.255.0.0, Gateway 192.168.1.1. The default Administrator's login ID is "admin" and password is "admin". All existing user accounts are erased if the system is recovered to the default settings.

If you need to start the system with DHCP enabled, do the following steps:
- Shutdown the system.
- Use a pin device to press the reset button "Rst" or "Default" that is located on the font panel.
- Keep press the button while turning the system power on.
- Continue holding down the button for 3 seconds after the system powers up.
- Now the system is set to the Default settings and the DHCP is enabled.

Other default settings include: Telnet and Web accesses which are enabled. AutoPing and Reboot are disabled. TCP ports: HTTP/Telnet 80/23. For S series, HTTPS port: 443.

To restore the factory default settings, you need to press a push-button switch located on the front panel for 20 seconds.

START CONFIGURATION

Method 1 – Using Serial Port Connection

To access and configure the system from the master port, you need to connect a RS232 port from your work station to the Local Master Serial Port on the unit. Then, run a terminal emulation program (such as Window's Hyper Terminal) on your computer.

1) Connect the system's Local Master Port (DCE) with a straight DB-9 type cable if your work station is equipped with a DTE port.
2) At terminal emulation program,. **type "help"** for command information.
3) Use command "ip x.x.x.x", "mask x.x.x.x", "gw x.x.x.x" "dhcp on" or "dhcp off" to setup network connection.
4) Then go to a web browser to start the system configuration: http://IP_ADDRESS.

Method 2 –Using Ethernet Connection (Static IP)

1) Use a crossover Ethernet cable to connect the system to your PC.
2) Make sure your PC is also on the subnet 192.168.1.0.
3) 3) Start Web Browser program: http://192.168.1.100

Method 3 –Using Ethernet Connection (DHCP IP)
By default DHPC is disabled. If you need to enable it, please follow the procedures discussed in "DEFAULT SETTINGS" section.

POWER OUTLET CONTROL

Use Configuration menus (terminal or web) to setup power port outlet or use the following commands:

/pset n x - turns power outlet on/off. Where "n" is outlet #; "x" is either "0" (off) or "1" (on).
/rb n – reboots outlet n.
/grb n – reboots outlets assigned to group "n"
/ps 1 – turns all power outlet on.
/ps 0 - turns all power outlet off.
/gps n 0 – turns off outlets assigned to the group n.
/gps n 1 – turns on outlets assigned to the group n.

Note: for NPC22, group "n" is omitted.

USER SERIAL CONSOLE PORT ACCESS

Command "/sset n",
 where n is the port number.
There are no local echo characters on your terminal because they are forwarded to user equipment that is connected to a user console port. It is up to the connected user equipment how to response to messages you entered.

For NPC22, use TCP port 2001 and 2002 for communicating with serial port 1 and 2.

USER PRIVILEGE LEVELS

Administration Login:
There is only one Administration account on the system. The default name is "admin" and default password is also "admin". The default name and password may be changed. If you login at the Administration level, you are able to remove and change existing user accounts, take over power outlets and change system settings.

User Login:
At the user login level, you can only operate outlets that reserved for you or the outlets are not reserved for any one else. You are not able to make any change on settings.

Anonymous (Visitor) Access:
If you have no account established on the system (as an anonymous user), you are only able to operate at terminal programs such as HyperTerm, view some of the system configuration settings and operate power outlets that are not reserved.