Guide of "**NPM**" Network Power Manager System

1.   Introduction

Network Power Manager (NPM) is the world-advanced new generation network power distribution and monitoring device developed and produced by **CLEVER**.

Through LAN or WAN, the IT Administrators can **MONITER**, **CONTROL** and **MANAGE** the power of many equipments anyplace anytime.

With the wide range of combination, NPM can deliver more control, reliable power and flexibility to nowaday equipment use.

CLEVER products are found in full compliance with the newly-published criteria both at home and abroad, and are awarded a safety certificate by internationally known bodies and 3C certificated by Chinese Authority, and have got national invention patents.   Clever is the sole designated supplier of relevant products by Xichang Satellite Emission Base.   She is ISO9001:2000 certified, and awarded a title of Good Quality Supplier, User Friendly Company, Outstanding Standardization Unit and others equivalent.   She is amount the standard makers of GB2099.3-1997, a domestic national standard for socket/switch supply.
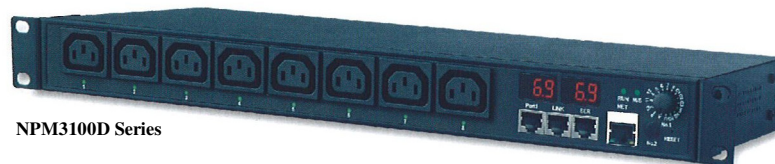
Installation Method :

NPM are widely applied to 19" Standard and nonstandard server cabinet or network equipment cabinet.   In different of Series, NPM can also be horizontally or vertically installed.

NPM3100D Series is applied to 19" cabinet (rack-mount horizontally installed)

NPM4100D / NPM 5100D Series is applied to Vertically installed only

NPM3100D Series

Control :

Via Browser, NPM can remotely monitor control and manage the following :

- working voltage

- TOTAL load current

- Group load current

- Load current of each outlet

- Power on/off state of each outlet

- Sequential power on/off of the outlets

- Sequential power on/off of the grouped outlets

- Timing power on/off of the outlets

- System operating state

- Temperature / Humidity state (optional)

- Smog state (optional)

- Door open / closed state (optional)

- Water-logging state (optional)
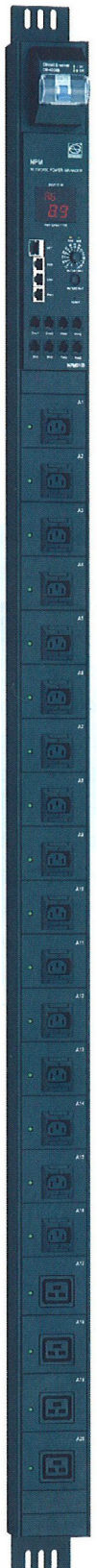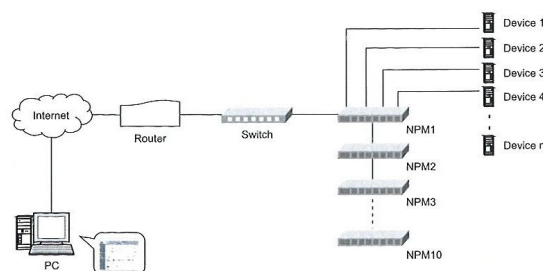
NPM4100D Series
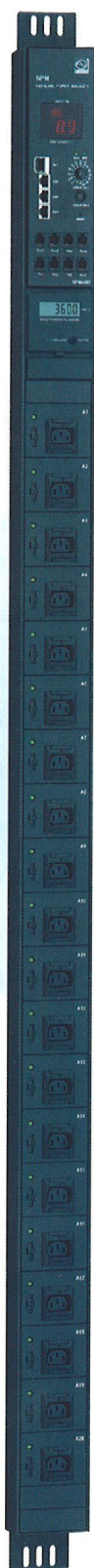
2.   Features :

| Main Function	Technical Instruction
Monitoring	Total Load Current
	Load current of each outlet
	On/Off state of each outlet
	System Operating state
	Server Operating state
	Temperature / Humidity *
	Smog Sensor *
	Door Sensor *
	Water logging Sensor *
Controlling	On/Off of each outlet
	Set the interval time of outlets sequential On/Off
	Set the On/Off time of each outlet
Keep the Original State	Keep the Orginial State of each outlet when reset
Set the limiting value to Alarm	The limiting range of total load current
	The limiting range of the load current of each outlet
	The limiting range of temperature and humidity
System Automatic Alarm	The total load current exceeds the limiting value
	The load current of individual outlet exceeds the limiting value
	Temperature / Humidity exceeds the limiting value *
	System failure
	Individual outlet failure
	Server Halt
	Smog *
	Water-logging *
	Door Open *
Alarming Method	The indicator on NPM controlling panel flashes and the buzzer alarms
	The indicator on the Browser interface flashes and the buzzer in PC alarms
	Automatically send e-mail to system administrator
	SNMP sends alarm information
Current consumption measurement	Automatically record the current consumption in unit time
Daisy-Chain	Daisy-Chain 10 sets NPM at most by radial link method
Log Record	Record and save the operating information of NPM, provide the query and Outlet of records
User Management	Set user's Right
Turn off in safe mode	Remotely soft turn off
Software system	Embedded controlling software system (multi-user operating, support software update)
Accessing Method	Web access through Browser (IE)
	SNMP (V1/V2C/V3), access to control through standard network working Station
	Telnet, SSH, access to control through command controlling station

* optional applied with different type of sensor (ie. Temperature / Humidity sensor, Smog sensor, Door sensor, Water logging senor)
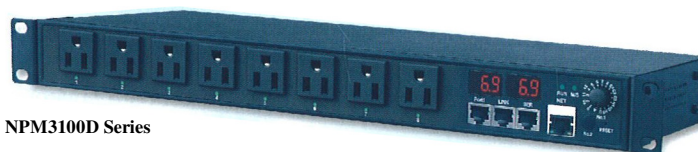
NPM4100D Series

NPM3100D Series
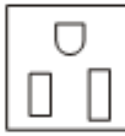
3. Functions

NPM3100D Series

NPM4100D Series
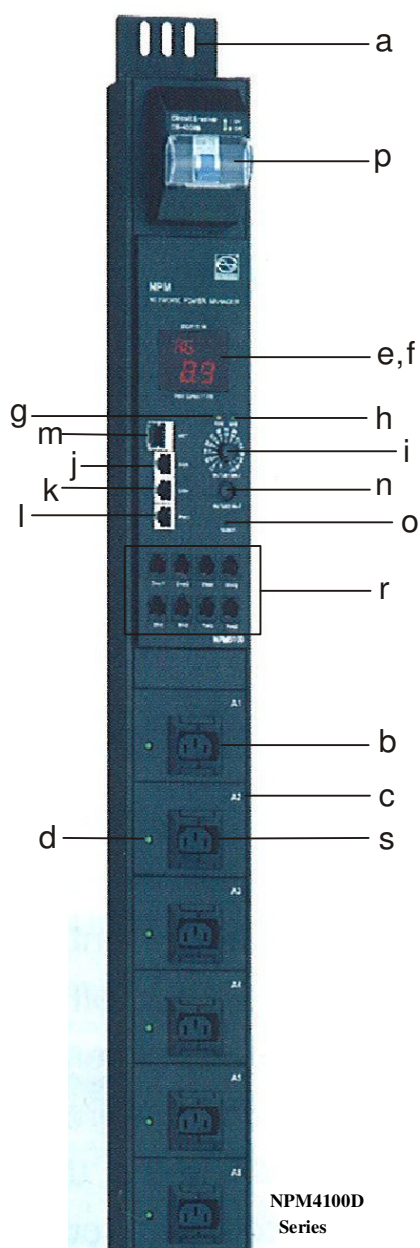
Functions :

a) Mounting Bracket

b) Type of Outlet / Socket (ie. IEC C13)

c) "Numbering" of the outlet

d) Power on indicator of each outlet

e) Digital Number indicator of dedicated outlet

f) Digital Amperemeter

g) LAN indicator

h) System indicator

i) Selector

j) Upgrade Port (for upgrade)

k) LINK port (for daisy-chain use)

l) SER port (for daisy-chain use)

m) LAN port (for LAN/WAN/Network)

n) Layer selector

o) Reset button

p) Circuit Breaker

r) Sensor port (Temperature / Door / Smog / Water-logging)

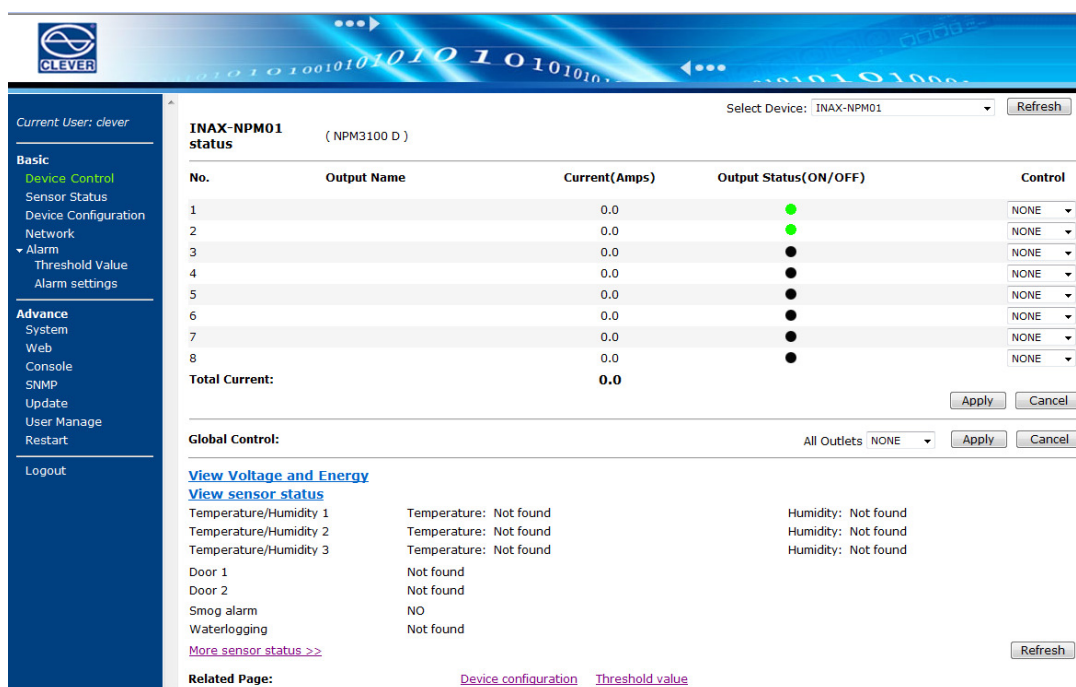s) Optional devices - Special Protection Bracket for IEC320-C13 socket only ! (CLEVER anti fail device)

4. Input / Outlet Characteristics

Main Function	Description	Parameter	
Input Characteristic	Rated Input Voltage	110/220VAC 50/60 Hz	
	Input Standard	IEC60309 Industrial plug / IP44	
	Cable Length	Std. 3M (others upon request)	
	Max. Load current	32A	
Outlet Characteristic	Outlet Socket Standard	IEC320 C13	IEC320 C19
		BS1363	
		NEMA 5-15R	NEMA 5-20R
	Outlet Quantity	4, 8, 12, 16, 20, 24	
	On/Off State of each outlet	LED displays	
	Rated Outlet Voltage	110/220VAC	
	Max. Total Load Current	32A	
Sensor Port	Temperature / Humidity Sensor Port	3	
	Smog Sensor Port	1	
	Water logging Sensor Port	1	
	Door Sensor Port	2	
Mounting Method	Horizontal	NPM3100D Series	
	Vertical	NPM4100D / NPM5100D Series	
Case Color	Color	Black	

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5. Main Characteristics of NPM

Remotely Monitoring, Controlling and Managing Function :

- Current consumption measurement

- Turning On / Off for individual outlet or All outlet

- Keep the original state

- Set the limiting value to alarm

- System automatic alarm

- Daisy-Chain

- Log Record

- User Management

- Turn off in safe mode
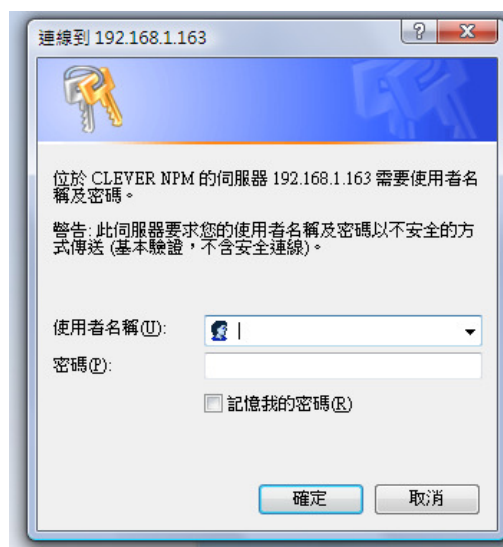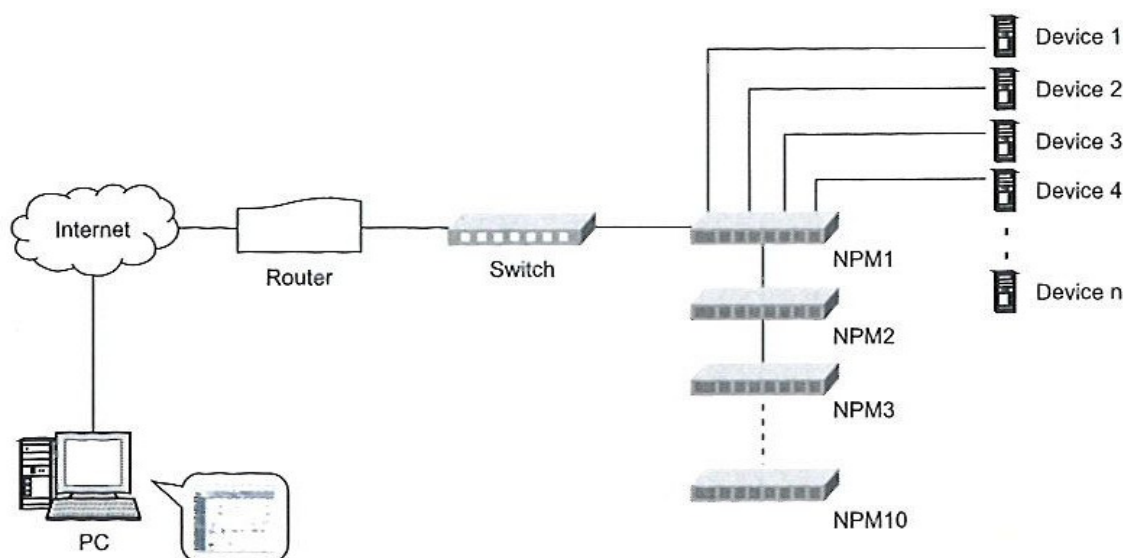
6. Alarming Methods

- The indicator on NPM controlling panel flashes and the buzzer alarms.

- The indicator on the Web Browser flashes and the buzzer in the PC alarms

- Automatically send E-mail to system administrator.
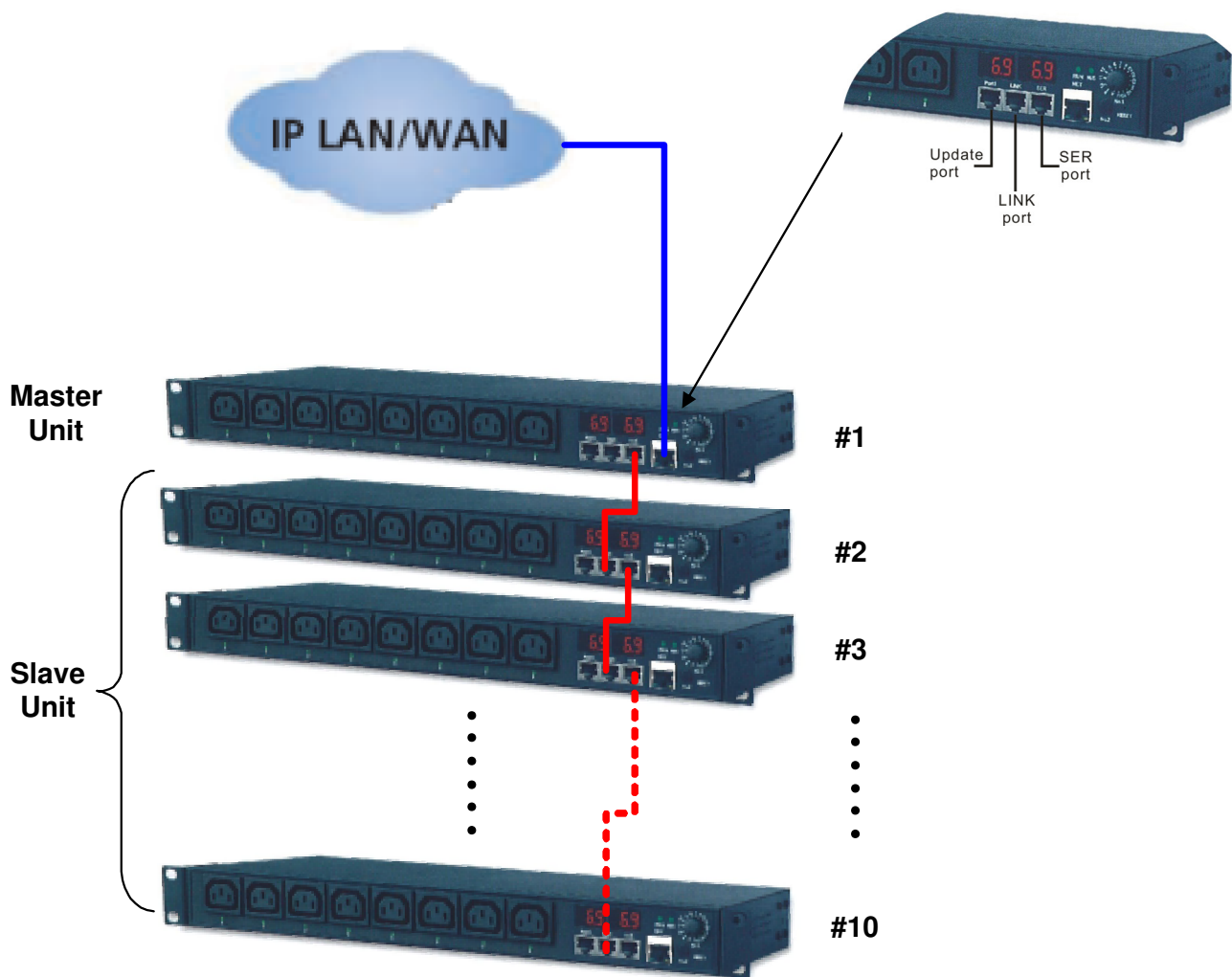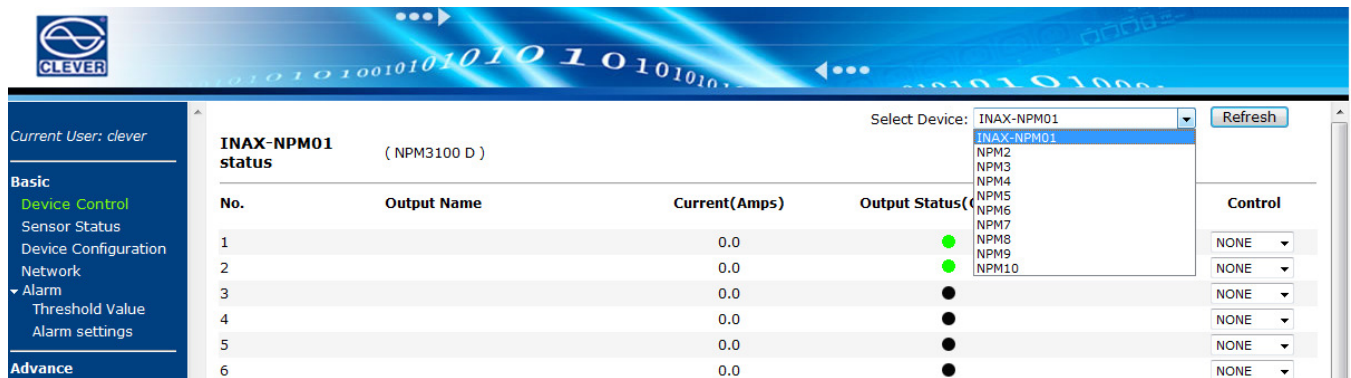
- SNMP send alarming information.

7. Software System

Embedded controlling software system is multi-user operating system which support software update, can access by :

- Web Browser (ie. IE, firefox….)
- SNPM (V1/V2C/V3), through standard network working station
- Telnet, SSH, through command-line console.

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8. Daisy Chain

Different from others intelligent Power Distribution Unit, NPM has a special feature that allow single IP to control up to **10 SETS** of NPM without adding any soft / hardware.   That would save the use of IP and cost for managing a group of Power Distribution Units.

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9. Product Samples (photos)

NPM4100 Series
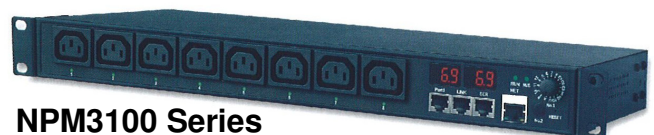
12 way NPM

12 x IEC320-C19 outlet

NPM4100 Series

16 way NPM

16 x BS1363 outlet

With circuit breaker

NPM4100 Series

20 way NPM

Combination with

16 x IEC320-C13 outlet

4 x IEC320-C19 outlet

(with Anti-fail device)

With Circuit Breaker

NPM3100 Series

8 way NPM

8 x IEC320-C13 outlet

10. Optional Fitting
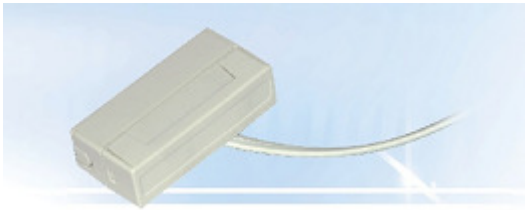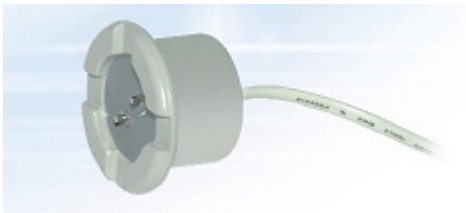
Description	Product
Temperature / Humidity Sensor	
Smog Sensor (Smoke Sensor)	
Door Sensor	
Water logging Sensor	
Current Consumption Meter Module	
Specialized Button Fixation	

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