# PSE-608R(I)/616R(I)/624R Power Source Equipment

# **USER'S MANUAL**



# Contents

1.	Introduction	3
	Features Package Contents	3 4
2.	Hardware Description	4
	Physical Dimension. Front Panel. LED Indicators. Rear Panel. Power On. Network Application. RJ-45 Remote Control Port.	4 5 5 6 7
3.	Software Utility Installation	14
4.	GUI Management	15
	Display and Illustration System Login Modify Password. Edit Station TCP/IP. Edit Remote PoE IP. GUI Connect All. Single Station Connect/Disconnect. Station and Status Window Select Edit Port Name. Configuration. Factory Setting. Board Status. Port Status. GUI Version. GUI Disconnect All. File Open and Save.	15 16 17 18 20 21 23 24 25 26 27 29 30 31 32 33
5.	Technical Specification	34

# **1. Introduction**

The PSE-608R(I)/616R(I)/624R PoE midspan, support 8/16/24 ports respectively in a 10/100/1000BaseTx Ethernet network, over TIA/EIA-568 Category 5/5e/6 cabling. DC operating power, for data terminal units, is fed over data pairs of the cabling (4/5 and 7/8). This allows greater flexibility in the locating of network devices and significantly decreasing installation costs in many cases.

The PSE-608R(I)/616R(I)/624R follows the IEEE 802.3af/IEEE 802.3at and is completely compatible with existing Ethernet switches and networked devices. Normally powers PDs (Powered Devices) that are Power over Ethernet enabled or are equipped to receive power over Ethernet. The PSE tests whether a networked device is PoE-capable, power is never transmitted unless a Powered Device is at other end of the cable. It also continues to monitor the channel. If the Powered Device does not draw a minimum current, because it has been unplugged or physically turned off, the PSE shuts down the power to that port. Devices that are not equipped to receive power over Ethernet may require an external splitter in order to be powered. Contact Mstronic for such a splitter.

### Features

8/16/24 port Power Sourcing Equipment ( power over Ethernet Hub)
Support 8/16/24 ports full load, max. 35W/port
AC input (100-240 VAC, 50/60 Hz)
IEEE802.3af/IEEE 802.3at compliance, Power over Ethernet Mid-Span mode
Remote power feeding of Ethernet terminals up to 100 meters
Auto detect PD, and support manual detect PD
Centralized power distribution for PoE powered Device (PD)
Independent overload and short-circuit protection per channel
Supports IEEE 802.3af/IEEE 802.3at non-standard device
Auto refresh port status and support Plug and Play feature for PD
Standard 19" or 23" rack mountable
DIY upgrade from 8 port to 16/24 port available
Remote manage up to 24 units via TCP/IP protocol
Isolated DC input available, can work with battery, non-interrupt performance.

### Package Contents

Unpack the contents of the PSE-608R(I)/616R(I)/624R and verify them against the checklist below.

PSE-608R(I)/616R(I)/624R x 1 Power Cord x 1 Bracket x 2 ( for 19" rack mounted) CD-ROM x 1 (Software Utility + User Manual)

Compare the contents of your PSE-608R(I)/616R(I)/624R package with the standard checklist above. If any item is missing or damaged, please contact your local dealer for service.

# 2. Hardware Description

This Section mainly describes the hardware of the PSE-608R(I)/616R(I)/624R and gives a physical and functional overview.

### **Physical Dimension**

PSE-608/608RI/616R physical dimension is: 430mm x 290mm x 44mm (Lx W x H), PSE-616RI/624R is 430mm x 400mm x 44mm (1U, 19" or 23" Rack mountable).

### Front Panel

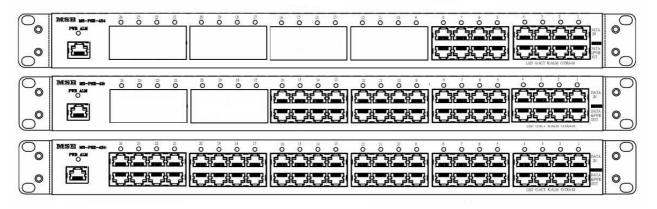


Figure 2-1. The Front panel of PSE-608R(I)/616R(I)/624R

The Front Panel of the PSE-608R(I)/616R(I)/624R consists of 8/16/24 x RJ-45 Ethernet ports (data), 8/16/24 x RJ-45 PoE ports (data + power), 8/16/24 x LED port indicators, one LED power indicator and one RJ-45 remote control port (include one LED).

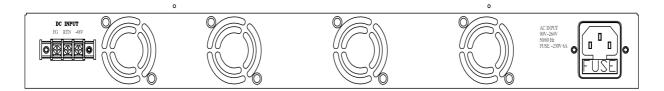
#### LED Indicators

The LED Indicators gives real-time information of systematic operation status. The following table provides descriptions of LED status and their meaning.

LED	Status	Color	Description
2.145	On	Green	A network device is detected(10/100/1000 Mbps) but no communication activity is detected
RJ45	Blinking	Green	The Ethernet port is transmitting to, or receiving package from another device
	Off		No device is detected
	On	Green	Power feeding normally
Power	On	Red	Power or fan alarm
	Off		Power off
	On	Green	Power feeding
	Blinking	Orange	Detecting
	0.7	Orenze	The port has been shutdown
Ports	On	Orange	No power feeding
Polis	On	Red	Alarm
	On	Rea	No power feeding
	Off		Unknown device attached
	Oli		No power feeding

Table 2-1. The Description of LED Indicators

### **Rear Panel**



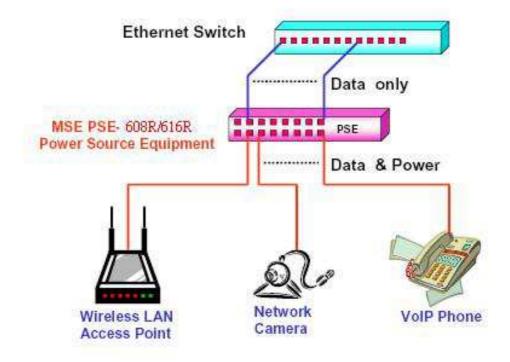
The AC inlet, DC input terminal, and 4 Ventilation fan are located at the rear panel of the PSE-608R(I)/616R(I)/624R. The device will work with AC in the range 100-240V AC, 50-60Hz. Or work with DC (-42~-57VDC for PSE-608R/616R/624R, 40V~60VDC for PSE-608RI/616RI)

### **Power On**

Connect the power cord to the power socket on the rear panel of the PSE. The other side of power cord connects to the power outlet. The internal power supply of the PSE works with voltage range of AC in the 100-240VAC, frequency 50~60Hz, or with voltage range of DC in the -42~-57VDC (40~60V for PSE-608RI/616RI). Check the power indicator on the front panel to see if power is properly supplied.

# **Network Application**

The PSE can provide power to the PD that follow the IEEE 802.3af/IEEE802.3at standard in the network. It can solve the problem of position limitation. The network device can be installed in more appropriate position for better performance. The following figure is an example of network application for PSE



### **RJ-45 Remote Control Port**

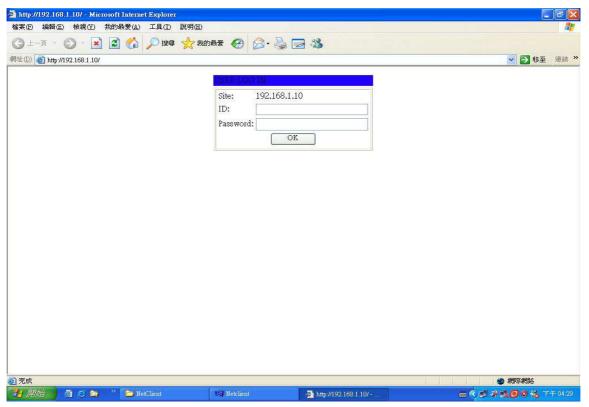
PSE-608R(I)/616R(I)/624R can remotely manage the PoE via the network. To manage PSE-608R(I)/616R(I)/624R, you must to set the PSE-608R(I)/616R(I)/624R TCP/IP parameter.

PSE-608R(I)/616R(I)/624R allowed you to use a standard Web-browser such as Microsoft Internet Explorer or Mozila, to set the TCP/IP parameter.

Before you use the web interface to set the PoE TCP/IP, verify that

PSE-608R(I)/616R(I)/624R is properly installed on your network and PC on the network can access PoE via the web-browser.

- 1. Verify that PC network interface card (NIC) is operational on the TCP/IP protocol.
- 2. Supply power to PSE608R/616R/624R.
- 3. Use RJ45 cable, connect PSE608R/616R/624R direct to your PC.
- 4. Make sure the PSE608R/616R/624R default IP is 192.168.1.10.
- 5. Set your PC IP to 192.168.1.2 or other IP address which is located in the 192.168.1.x subnet.
- 6. Make sure the connector is OK (Ping 192.168.1.10 on the DOS mode).
- 7. Start the web-browser and type <u>http://192.168.1.10</u> (or used PoE IP setting icon in the PoE management software).
- 8. The login in screen will appear next.



- 9. Key in ID (user name) and password to enter PoE TCP/IP parameter setting. Default ID and password is "admin" and "system".
- PSE-608R(I)/616R(I)/624R TCP/IP parameter has 4 pages interface (administrator setting, TCP Mode, UDP Mode and UART). You must change the administrator & TCP mode to fit your network.

11. Administrator setting: you can assign nickname, IP setting, user name, password and view system information.

	我的最爱 (ム) 工具 (D) 説明 (H) (日) (日) (日) (日) (日) (日) (日) (日) (日) (日	2	
2 Attp://192.168.1.10/		0	🔽 🛃 移至 連續
ninistrator Setting <u>Mode</u> <u>Mode</u> RT	Administrator Setting		
et Device	Kernel Version	V1.43 2010/01/21	
	MAC Address	00:50:C2:C9:70:00	
	Nickname	NetUART	
	IP Setting		
	IP Address	192. 168.1.10	
	Subnet Mask	255 255 255 0	
	Gateway	192 168 1 1	
	IP Configure	Static ODHCP	
	Password Setting		
	Username	admin max:15	
	Password Confirm	max:15	
		Update	
	Load Default Setting to EEPROM	Load	

Nickname: You can assign a name to the device.

IP Address: You must assign the IP address reserved by your network. The default IP is 192.168.1.10.

Subnet Mask: You can assign the subnet mask for the IP address. The default subnet mask is 255.255.255.0.

Gateway: You can assign the gateway here. The default gateway is 192.168.1.1.

IP Configure: You must assign to Static for PoE serve operation. The default IP configure is Static.

Username: You can assign new user name. The default setting is admin.

Password/Confirm: You can type in new password here. The default setting is system.

When you have finished the set up, click on Update to update your setting.

🚰 http://192.168.1.10/ - Micro					
	的最愛( <u>A</u> ) 工具(T) 說明(H)				
	🖻 🚮 🔎 搜尋 📩 我的	最愛 🚱 😂 - 🦓			
網址①) 顲 http://192.168.1.10/					💌 🛃 移至 🧵 連結 🎽
Administrator Setting TCP Mode UDP Mode UART	TCP Control				
Reset Device	Ite	:m		Value	
	Telnet Ser	ver/Client		Server 🔿 Client 🔿 Disab	le
	Port N	umber		23	
	Remote Serve	er IP Address		210 200 181 102	
	Client mode in	active timeout	20	minute (1~99,0=Disa	ble)
	Server mode p	protect timeout	0 minut	e (1~98,0=Disable,99=C	an't replace)
			Update		
<ul> <li>完成</li> </ul>					《 網際網路
1 開始 👌 🖄 🖄	🤲 🗀 NetChent	E Netchent	🌁 http://192.168.1.10/		

12. TCP Mode: You can update the TCP control parameter here.

Telnet Server/Client: Set to Server for PoE management operation.

Port Number: You can assign port number for TCP/IP operation. The default Port Number is 23.

Remote Server IP Address: Unused.

Clint mode inactive timeout: Unused.

Server mode protect timeout: Set to 0(Disable) for normal operation.

When you have finished the set up, click on Update to update your setting.

PS: The PSE-608R(I)/616R(I)/624R don't used in the Telnet terminal.

http://192.168.1.10/ - Microsof 案① 編輯① 檢視⑦ 我的	and a second		
± D 🗿 http://192.168.1.10/			🖌 🛃 移至 連結
dministrator Setting CP Mode DP Mode	UDP		
ART eset Device	Item	Value	
	Status	🔿 Enable 💿 Disable	
	Local Port	21	
		IP	Port
		0.0.0	0
		0.0.0	0
		0.0.0	0
		0 0 0	0
	Remote Address	0.0.0	0
		0.0.0	0
		0 0 0	0
		0.0.0	0
		0 0 0 0	0
		0.0.0	0
医成	1.1		《 網際網路

#### 13. UDP Mode: This mode is not used in the PoE application.

14. UART: You must set UART Control to RS232,9600,8,N,1 for PoE operation.

http://192.168.1.10/ - Microso			a) 🗙
「案EP 編輯EP 檢視(V) 我的			1
3上—頁 • 🔘 · 💌 👔	👌 🏠 🔎 搜尋 📩 我的最爱 🥝 🎯	la 🗟 🔁 🖓	
₩@) 🍓 http://192.168.1.10/		💌 🄁 移至 📑	連結
Administrator Setting TCP Mode UDP Mode UART	UART Control		
Reset Device	Item	Setting	T
	Mode	R\$232 🗸	
	Baudrate	9600 😽	
	Character Bits	8 🛩	
	Parity Type	nône 💌	
	Stop Bit	1	
	Hardware Flow Control	none	
	Delimiter	□ Character 1: <sup>00</sup> , □ Character 2: <sup>FF</sup> □ Silent time: <sup>5</sup> (1~255)*200ms □ Drop Character	
		Update	
			_
🛃 開始 🔰 🧟 😂 🎽 🎽	🔁 NetChent 🛛 🕬 NetChent	🦉 http://192.168.1.10/ 🗰 🔦 🕏 🗭 🖏 🍯 🕸 🚴 下午	04:34

Mode: Set to RS232 for PoE operation.

Baud rate: Set to 9600 bps for PoE operation.

Character Bits: Set to 8 bits for PoE operation.

Parity Type: Set to none parity for PoE operation.

Stop Bit: Set to 1 stop bit for PoE operation.

Hardware Flow Control: Set to none flow control for PoE operation.

When you have finished the set up, click on Update to update your setting.

🚰 http://192.168.1.10/ - Microsoft	Internet Explorer			
檔案(E) 編輯(E) 檢視(Y) 我的最	₩愛(A) 工具(I) 説明(H)			
🔇 l-ā · 🔘 · 💽 💈	🏠 🔎 搜尋 🥎 我的	の最愛 🥝 🤗 🍓 📑	3 28	
網址① 🕘 http://192.168.1.10/				▶ 🛃 移至 連結 🔭
Administrator Setting <u>TCP Mode</u> <u>UDP Mode</u> <u>UART</u> <u>Reset Device</u>			Reset Device Reset	
2 完成				● 網際網路
🦺 開始 🌖 🗟 🖉 🔌 👋	🗀 NetChent	E Verchent	🚈 http://192.168.1.10/-	■ < 3 2 2 4 1 4 35

15. When you have configured your set up, you must reset the device to take effect.

# 3. Software Utility Installation

Before you start to remote configuring PD, please install the software utility. Through the software utility, you can easily to control the PD that connect with PoE and view the PD parameter information. The software utility provides GUI interface and user can easily to start with it. The software utility supports Windows environment – Window 98, 2000, XP,Vista and Window 7. Please follow the below steps to install the software utility.

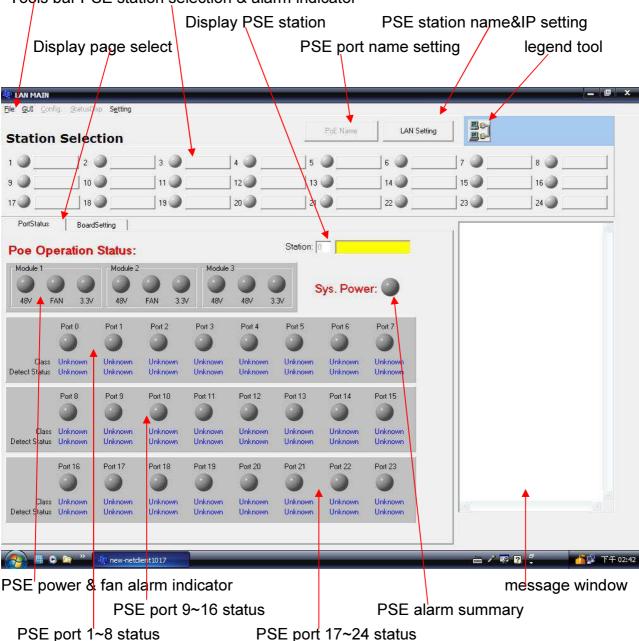
- 1. Insert the software utility CD-ROM into your CD-ROM drive.
- 2. Run the "setup.exe".
- 3. You will see the installation screen display.
- 4. Then, click the "OK" button to go next step.

😼 PoE Setup	
	Welcome to the installer for PoE 1.0. It is strongly recommended that you exit all Windows programs before continuing with this installation. If you have any other programs running, please click Cancel, close the programs, and run this setup again. Otherwise, click Next to continue.
	< Back Next > Cancel

# 4. GUI Management

### **Display and Illustration**

Connect the PSE with a PC through the remote control port. Then, run the software utility (Netclient). You will see the main utility interface below.



Tools bar PSE station selection & alarm indicator

# System Login

Now Run the management software, the system will show the diagram below.

Station	Selec	tion					PoE Name	LAN Settin	9	
Ø	2		з 🌒		4	5		6 🎱 🔜	7	8 🌒
• 🌒 🔡	10	)	11 🌑	[	12 🔵 🔛	13	0	14 🥥 🔜	15 🔵 🔛	16 🥥
7 🔵 📃	18	)	19 🌒		20 🔵 🔛	21	۵ [	22 🔵 🔛	23 🔵 🔛	24 🥥
PortStatus	BoardS	Setting								
Poe Op	eration	Statue				Station:				
Module 1		Module 2		Module	3					
0 6			00		Login Me	ะกบ		×		
48V F/	AN 3.3V	<b>48</b> V	FAN 3.3		U Login Me		Kushi dan di da			
48V F/	AN 3.3V	<b>●</b> 48∨	FAN 3.3		U Login Me	enter pa	Kushi dan di da			
48V F/	AN 3.3V	48V Port 1	FAN 3.3		U Login Me		Kushi dan di da			
48V F				V 48V	U Login Me		assword :			
Class	Port 0	Port 1	Port 2	V 48V	Please	enter pa	assword : enter	7 hown		
	Port 0	Port 1 Dinknown Unknown	Port 2 O Unknown Unknown	V 48V	Unknown	e enter pa	assword : enter Unknown	7 Dhown Unknown		
Class	Port 0	Port 1	Port 2	V 48V	Please	enter pa	assword : enter	7 hown		
Class Detect Status	Port 0 Unknown Unknown Port 8	Port 1 Unknown Unknown Port 9 O	Port 2 Unknown Unknown Port 10 O	Port 3 Unknown Unknown Port 11	Unknown	e enter pa Unknown Port 13	unknown Port 14	7 Unknown Port 15		
Class Detect Status	Port 0 Dunknown Unknown Unknown Port 8 Dunknown	Port 1 Dinknown Unknown	Port 2 O Unknown Unknown	V 48V	Unknown	e enter pa	assword : enter Unknown	7 Dhown Unknown		
Class Detect Status Class	Port 0 Dunknown Unknown Unknown Port 8 Dunknown	Port 1 Unknown Unknown Port 9 Unknown Unknown	Port 2 Unknown Unknown Port 10 Unknown	V ABV	Unknown	e enter pa Unknown Port 13	Unknown	Pott 15		
Class Detect Status Class	Port 0 Unknown Unknown Port 8 Unknown Unknown Unknown	Port 1 Unknown Unknown Port 9 Unknown Unknown	Port 2 Unknown Unknown Port 10 Unknown Unknown	Port 3 Unknown Unknown Unknown Unknown Unknown Unknown	Unknown Unknown Unknown Unknown Unknown	e enter pa Unknown Port 13 Unknown Unknown	enter Unknown Pot 14 Unknown Unknown	Port 15 Unknown Unknown Unknown Unknown		
Class Detect Status Class Detect Status	Port 0 Unknown Unknown Port 8 Unknown Unknown Unknown	Port 1 Unknown Unknown Port 9 Unknown Unknown	Port 2 Unknown Unknown Port 10 Unknown Unknown	Port 3 Unknown Unknown Unknown Unknown Unknown Unknown	Unknown Unknown Unknown Unknown Unknown	e enter pa Unknown Port 13 Unknown Unknown	enter Unknown Pot 14 Unknown Unknown	Port 15 Unknown Unknown Unknown Unknown		

enter the password, first enter the default setting which is "0000"

# **Modify Password**

Click "File" and select "Modify PSW", you can modify the password, the system permits 3 sets of password.

Station	Folor	tion					PoE Name	LAN Setting		
-	-324R 2 (		3	1	4 🕥	5		  6 @		18 🕥
a 🙆 🗌	10				12	13	<u> </u>	 	/	16
	18		19		20	21	5	22	23	24
PortStatus Poe Op	Boards	-				Station: [0				configuration parameter done!! configuration parameter done!! erver
48V F	AN 3.3V	481/	FAN 3.3		0000					
	Port 0	Port 1 Unknown Unknown	Port 2 Unknown Unknown	Port 3 2 Port 3 2 Unknc Unknc		CONCOMPT	clo			
Class	Unknown	Port 1	Port 2	Port 3 2 3 Unknc		Orikhowi Port 13	clo	se		
Class Detect Status	Unknown Unknown Port 8 Unknown	Port 1 Unknown Unknown	Port 2 O Unknown Unknown	Port 3 2 3 Unkno Unknomi			clo	SE OTINTOWIT		
Class Detect Status Class	Unknown Unknown Port 8 Unknown	Port 1 Port 1 Unknown Unknown Port 9 Onknown	Port 2 Unknown Unknown Port 10 Unknown	Port 3 2 3 Unkno Unknown Port 11 Unknown	Port 12 Unknown	Port 13	Port 14	Port 15		

#### **Edit Station TCP/IP**

Click "Setting", and select "LAN Setting", or click "LAN Setting" icon, the screen will enter IP Setting window.

	ig. <u>S</u> tatusDis Select	LAN Set	Contraction of the local distance of the loc				PoE Name	LAN Setting		RT Board STATUS	
PSE	-324R 2	)(	3		4 🥥 🔜	5	۰	6	7	B 🕘	
• • <u> </u>	10	)(	11 🔘 _		12	13	۰	14 🥥	15 🥥	16 🥥 _	
7 🔵 🔛	18	)	19 🔘 _		20 🔵 🔛	21		22 🔘	23 🔵	24 🥥	
Module 1	eration :	Status: Module 2	<u>a</u> a	Module 3		Station: 1			Station1: Sent G	configuration parameter done ET BOARD STATUS comm configuration parameter done	nanc
48V F/	AN 3.3V	487	FAN 3.3V	48V	48V 3.3		ys. Powe		Station1: Sent F Station1: Factory	er configuration parameter done actory setting!! y setting restored!!	1
Class	1-1 O Unknown	1-2 Dunknown	1-3 O Unknown	1-4 O Unknown	1-5 O Unknown	1-6 Unknown	1-7 O Unknown	1-8 O Unknown	Station1: Read of Station1: Sent F Station1: Factory Station1: Sent G Station1: Read of Station1: Sent F	er configuration parameter done actory setting!! y setting restored!! ET BOARD STATUS comm configuration parameter done	nanc
Class	1-1 Unknown Open Circuit	1-2 Dunknown Open Circuit	1-3 O Unknown Open Circuit	1-4 O Unknown Open Circuit	1-5 O Unknown Open Circuit	1-6 O Unknown Open Circuit	1-7 O Unknown Open Circuit	1-8 Unknown Open Circuit	Station1: Read of Station1: Sent F Station1: Factory Station1: Sent G Station1: Read of Station1: Sent F	er configuration parameter done actory setting!! y setting restored!! ET BOARD STATUS comm configuration parameter done actory setting!!	nanc
	1-1 O Unknown	1-2 Dunknown	1-3 O Unknown	1-4 O Unknown	1-5 O Unknown	1-6 Unknown	1-7 O Unknown	1-8 O Unknown	Station1: Read of Station1: Sent F Station1: Factory Station1: Sent G Station1: Read of Station1: Sent F	er configuration parameter done actory setting!! y setting restored!! ET BOARD STATUS comm configuration parameter done actory setting!!	nanc
Class Detect Status	1-1 Unknown Open Circuit 1-9 Unknown	1-2 Dunknown Open Circuit	1-3 O Unknown Open Circuit	1-4 O Unknown Open Circuit	1-5 O Unknown Open Circuit	1-6 O Unknown Open Circuit	1-7 O Unknown Open Circuit	1-8 Unknown Open Circuit	Station1: Read of Station1: Sent F Station1: Factory Station1: Sent G Station1: Read of Station1: Sent F	er configuration parameter done actory setting!! y setting restored!! ET BOARD STATUS comm configuration parameter done actory setting!!	nanc all
Class Detect Status Class	1-1 Unknown Open Circuit 1-9 Unknown	1-2 Unknown Open Circuit 1-10 Unknown	1-3 Unknown Open Circuit 1-11 Unknown	1-4 Unknown Open Circuit 1-12 Unknown	1-5 Unknown Open Circuit 1-13 Unknown	1-6 Unknown Open Circuit 1-14 Unknown	1-7 Unknown Open Circuit 1-15 Unknown	1-8 Unknown Open Circuit	Station1: Read of Station1: Sent F Station1: Factory Station1: Sent G Station1: Read of Station1: Sent F	er configuration parameter done actory setting!! y setting restored!! ET BOARD STATUS comm configuration parameter done actory setting!!	nanc
Class Detect Status Class	1-1 Unknown Open Circuit 1-9 Unknown Unknown	1-2 Unknown Open Circuit 1-10 Unknown Unknown	1-3 Unknown Open Circuit 1-11 Unknown Unknown	1-4 Unknown Open Circuit 1-12 Unknown Unknown Unknown	1-5 Unknown Open Circuit 1-13 Unknown Unknown	1-6 Unknown Open Circuit 1-14 Unknown Unknown	1-7 Unknown Open Circuit 1-15 Unknown Unknown	1-8 Unknown Open Circuit 1-16 Unknown Unknown	Station1: Read of Station1: Sent F Station1: Factory Station1: Sent G Station1: Read of Station1: Sent F	er configuration parameter done actory setting!! y setting restored!! ET BOARD STATUS comm configuration parameter done actory setting!!	nanc all

In the IP Setting display window, you can edit the station name, TCP/IP address and port number. Click the Edit icon to modify this parameter. In the Edit window, click the View icon to display TCP/IP parameter.

Station 1-12	Station 13	-24				
itation: Station Name:	I Address:	Port:	PoE IP		Status	
			Setting	Connect	MemoStatus	1
· •			Setting	Connect		
			Setting	Connect		
			Setting	Connect		
•			Setting	Connect		
			Setting	Connect		
			Setting	Connect		
			Setting	Connect		
			Setting	Connect		
o 🌑			Setting	Connect		
1 🔘			Setting	Connect		
2			Setting	Connect		

Station Name: You can assign a name to the PSE device.

Address: You can assign the IP address for this PSE station.

Port:: You can assign the port number for this PSE station.

#### Edit Remote PoE IP

In the IP Setting display window, you can use "PoE IP Setting" icon to start the web-browser. To modify the remote PoE TCP/IP parameter, please reference RJ-45 Remote Control Port of section 2 Hardware Description (page 7).

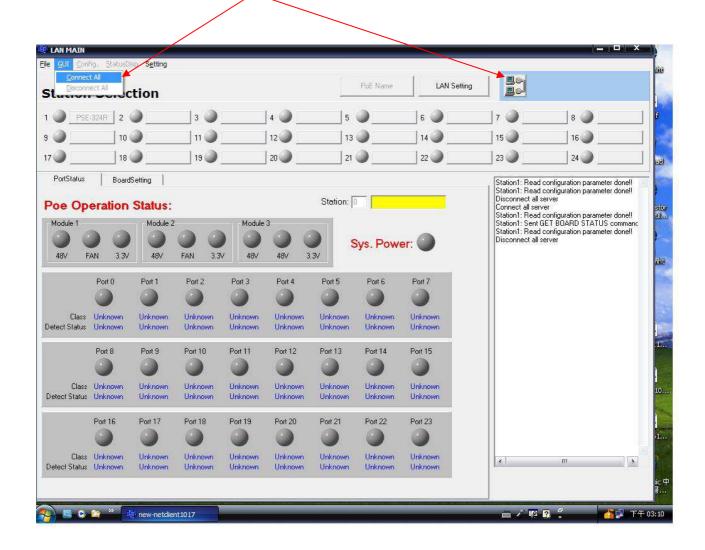
Sta	tion 1-12	Station 13-	24			-1	
Station:	Station Name:	Address:	Port:	PoE IP	/	Status: MemoStatus	
1 🔘	PSE-324R	192.168.1.10	23	Setting	Connect	MemoStatus	
2				Setting	Connect		
з 🌑				Setting	Connect		
4 🔘				Setting	Connect		
5				Setting	Connect		
6 🔘				Setting	Connect		
7 🔘				Setting	Connect		
8 🔘				Setting	Connect		
9 🔘				Setting	Connect		
0		-		Setting	Connect		
n 🌒				Setting	Connect		
12 🔘		-		Setting	Connect		
-	ïew E	Edit				ng Browse	CLOSE

Change Browse icon: You can use this icon to change the web-browser for remote PoE IP edit. The default web-browser is Microsoft Internet Explorer.

CLOSE icon: close IP Setting window, return to main page window.

### **GUI Connect All**

In the main page window, click "GUI" and select "Connect All" command or click "connect all" icon, if the Station Selection window shows the name icon and displays power status(green or red) light, it means that the PSE connection is correct. You can then select station to configure you PSE.



GUI connect example:

In the Station Selection window, the LED indicates real time connection of PSE.

Green-----this connection and PSE power are normal.

Red-----this connection is OK but PSE power is not correct.

Orange---this connection is not working...

Gray-----this station is not setting.

Station	Select	tion					PoE Name	LAN Setting		t Board STATUS
pse	9324r 2	)(	3		4 🕘 🔄	5	)	6	7 •	8 🕘 🔜
0	10	)(	11 🔘		12	13	)	14 🥥	15 🥥	16 🕘
7 🖉 🔛	18	)	19 🔘 _		20 🔵 🔛	21	)	_ 22 🔘	23 🔘	24 🥥
Poe Op Module 1	eration				2	Station: 1	pse324r		Connect all serve Station1: Read o	onfiguration parameter done!!
0	AN 3.3V	Module 2 48V	FAN 3.3V	Module 3	<b>4</b> 8V 3.3		ys. Powe	r: 🕙		
48V F/	1-1 O Unknown		1-3 O Unknown		48V 3.3	1-6 Unknown	1.7 Unknown	1-8 Unknown Open Circuit		
48V Fi	1-1 Unknown Open Circuit	1-2 Unknown	1-3 O Unknown	1-4 Unknown	48V 3.3	1-6 Unknown	1.7 Unknown	1-8 Unknown		
48V F, Class Detect Status Class	1-1 Unknown Open Circuit	48V 1-2 0 Unknown Open Circuit 1-10 0 Unknown	1-3 Unknown Open Circuit	1-4 Unknown Open Circuit 1-12 Unknown	48V 3.3	V 1-6 Unknown Open Circuit 1-14 Unknown	1.7 Unknown Open Circuit 1-15 Unknown	1-8 Unknown Open Circuit		

#### Single Station Connect/Disconnect

In the IP Setting window, you can click Connect/Disconnect icon to enable/disable single station connection, the LED indicates real time status of TCP/IP.

Green-----TCP/IP connection is OK.

Red-----TCP/IP connection is not working.

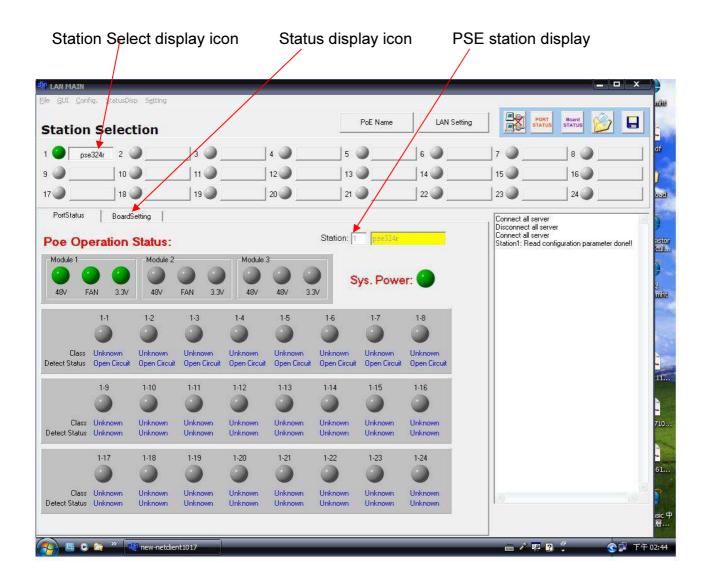
Gray-----TCP/IP parameter is not setting.

ation Sel	ection			PoE	Name	AN Setting	Board STATUS Board
PSE-324R	IPSetting		ent Connection				
ortStatus	Sta	ntion 1-12	Station 13-	-24			
e Operati	Station	Station Name:	Address:	Port:	PoE IP		Status
odule 1	1 🔵	PSE-324R	192.168.1.10	23	Setting	DisConnect	Station1: Read configuration parameter dou Station1: Read configuration parameter dou Disconnect all server
	2 🔘				Setting	Connect	Connect all server Station1: Read configuration parameter dou Station1: Sent GET BOARD STATUS com
3V FAN	3				Setting	Connect	Station 1: Read configuration parameter doi Disconnect all server Connect all server
1-1	4 🔘				Setting	Connect	Station1: Read configuration parameter do Station1: Sent Factory setting! Station1: Factory setting restored!!
Class Unkno	5 🕥				Setting	Connect	Station1: Sent GET BOARD STATUS com Station1: Read configuration parameter dou Station1: Sent Factory setting!
1.9	6 🔘				Setting	Connect	Station1: Factory setting restored!
	7 🔘				Setting	Connect	
Class Unkne st Status Unkne	8 🔘				Setting	Connect	
1-17	9 🕥				Setting	Connect	
0	10				Setting	Connect	
Class Unkne ct Status Unkne	11 🔘				Setting	Connect	

#### **Station and Status Window Select**

The PSE management software can monitor 24 PSE simultaneously. In the GUI Disconnect All mode, only the TCP/IP Status display window can be used to set the TCP/IP parameter. In the GUI Connector All mode, there two display windows can choose - Port Status & Board Setting.

Port status and Board Setting show relative PSE Station status. If you want to change the status display window, only use the mouse to choose the relative word icon. If you want to change the station, also use the mouse to choose the station name icon.



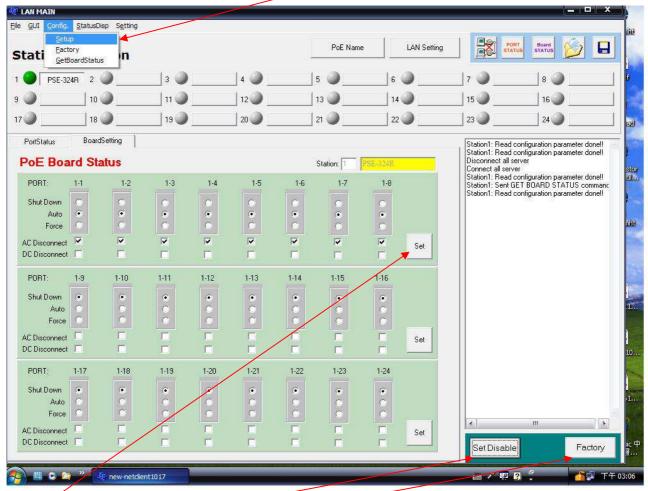
### **Edit Port Name**

Click "Setting", and select "PoE Name" or click the "PoE Name" icon. The screen will enter IP Setting window. You can assign a name to the PSE port individually. In the "Module Select" window, select the suitable port that you require.

PSE-324R		2 1 1 1 2 1 2 1 2 3 1 3	4 Setting Port Name s 9 19 10 1-10 11 1-11	PoE Name	LAN Setting	on1: Read co on1: Read co on1: Read co on1: Read co on1: Read co	8        16        24        Infiguration parameter done!!        ver
PortStatus PortOperat Aodule 1 Adv FAN	10  18  BoardSetting tion Status: Module	11 Port Name 1 1 2 1-2 3 1-3	<b>Port Name s</b> 9 1-9 10 1-10	etting 17 1-17 18 1-18	Module Selec	on1: Read co on1: Read co on1: Read co on1: Read co on1: Read co	16 16 16 16 16 16 16 16 16 16 16 16 16 1
PortStatus	18  BoardSetting tion Status: Module	2 1.2 3 1.3	9 1.9 10 1.10	etting 17 1-17 18 1-18	Module Selec	on1: Read co on1: Read co on1: Read co on1: Read co on1: Read co	24 24 24 24 24 24 24 24 24 24 24 24 24 2
PortStatus	BoardSetting   tion Status: Module	2 1.2 3 1.3	9 1.9 10 1.10	17 [1-17 18 [1-18		on1: Read co onnect all ser hect all server	nfiguration parameter done!! nfiguration parameter done!! ver
Aodule 1 48V FAN	tion Status:	2 1 1 1 2 1 2 1 2 3 1 3	9 1-9 10 1-10	17 [1-17 18 [1-18		on1: Read co onnect all ser hect all server	nfiguration parameter done!! ver
48V FAN	Module	2 1.2 3 1.3	10 1-10	18 1-18		ct: onnect all ser hect all server	ver
48V FAN	Module	2 2 1.2 3 1.3		and Contractor	_ 24 Port		
	3.3V 48V	And the second	11 1.11	19 1-19	-		
	3.3V 48V						
14		4 1-4	12 1.12	20 1-20	-		
0	1 1.2	5 1-5	13 1.13	21 1-21	-		
		6 1-6	14 1.14	22 1-22	-		
Class Unkn ect Status Open	nown Unknown n Circuit Open Circu	7 1-7	15 1.15	23 1-23			
eccolatus open	n circuit open circu	8 1.8	16 1.16	24 1-24			
1.9	9 1-10	-	1	1			
			X Cancel	🗸 ОК			
Class Unkn tect Status Unkn							
1-17	7 1-18	1-19	1-20 1-21	1-22 1-23	1-24		
0							
Class Unkni tect Status Unkni			Jnknown Unknown Jnknown Unknown	Unknown Unknown Unknown Unknown	Unknown Unknown		
Joer Jidius Unkhi	nown, onknown,	UNKIOWI, U	UNKIOWIT, UNKIOWIT,	CHINI CHINIOWH	ON KI OWIT		

# Configuration

. In the main page window, click "Config", and select "Setup", the screen will show the system control panel as below.



Set icon: Apply the operation mode to PSE system.

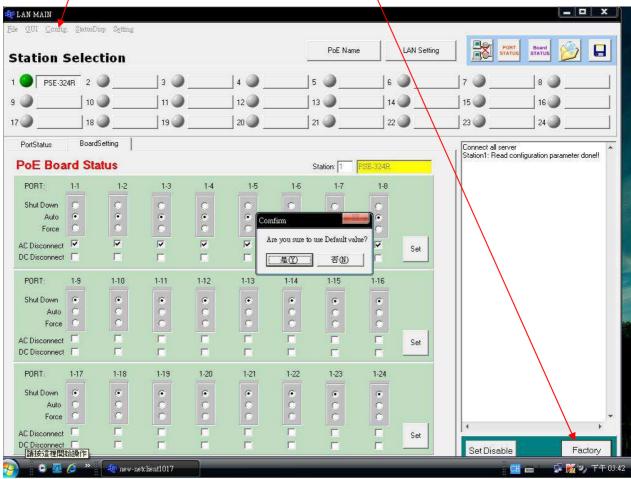
Set Enable/Set Disable icon: Change the Board Status window to set enable/disable. Factory icon: Apply the factory setting to PSE system.

You can setup Operation Mode/ AC Disconnect/ DC Disconnect of each port individually, then, click "Set".

PSE port operates in one of three modes: auto mode, force mode and shutdown mode. In auto mode, the port will detect and classify a PD to connect to, then immediately turn on the power if the detection was successful. In force mode, the port will not detect and classify a PD to connect to, but immediately turn on the power to the port. In shutdown mode, the port is disabled and does not detect or power on a PD.

# **Factory Setting**

Click "Config", and select "Factory" or click the "Factory" icon. The screen will show the factory setting control panel as below:



then click "Y" for the Factory Setting.

Factory setting as below:

Operation Mode  $\rightarrow$  Auto (Auto, Force & Shutdown)

- AC Disconnect  $\rightarrow$  On (On & Off)
- DC Disconnect  $\rightarrow$  Off (On & Off)

tation S	Selec	tion				_	PoE Nam	e	LAN Setting		RT Board STATUS	H
PSE-32	4R 2 🕻	)	3		4		5 0	6	0	7 🌒	8 🌑	
۵	10	)	11 🌒		12		13 🔵 🔛	14	٠	15 🥥 _	16 🥥 🔄	
0	18	)	19 🥥		20 🔘 _	]	21 🔘 🔄	22	۵	23 🥥	24 🥥 🔄	
PortStatus	BoardS	ietting				-11-				Connect all serv		a a
PoE Boa	rd Sta	tus					Station: 1	PSE-324R	-	Station1: Sent F	configuration parameter ( actory setting!! y setting restored!!	donell
PORT Shut Down Auto Force	1-1 © ©	1.2 • •	1-3 © ©	1-4 •	1-5 • •	1-6 • •	1-7 •	1-8 • •		Station1: Sent F	actory setting!! y setting restored!!	
AC Disconnect DC Disconnect									Set			
PORT: Shut Down Auto Force AC Disconnect DC Disconnect	1-9 • • • •	1-10 • • •	1-11 • • • • • • • • • • • • •	1-12 © © © П	1-13 © ©	1-14 © ©	1-15 © ©	1-16 C C T	Set			
PORT: Shut Down Auto Force AC Disconnect DC Disconnect	1.17 • • •	1.18 • •	1-19 • • •	1-20 © © П	1-21 © © ©	1.22 ° ° °	1-23 © ©	1-24 © ©	Set	<	Fa	* ctory

### **Board Status**

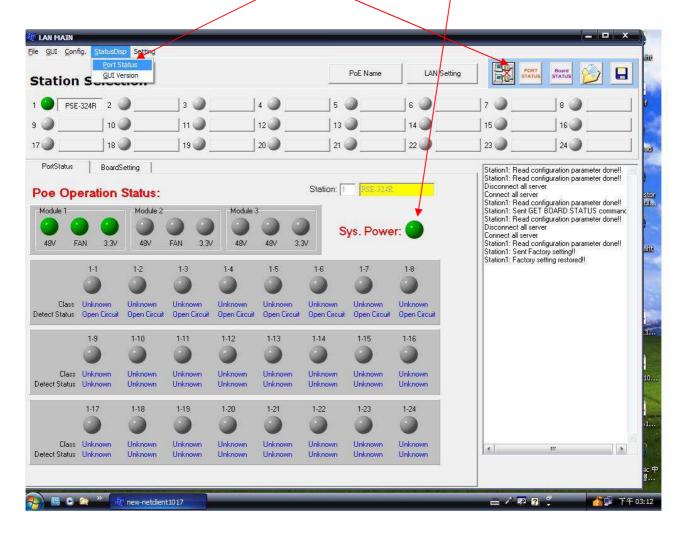
Click "Config", and select "GetBoardStatus", or click "Board STATUS" icon, the screen will show current status of each port.

<u>GUI</u> <u>Config</u> Setup Eactor <u>Get8</u>	2	s Setting				ļ	PoE Name		LAN Setting		T Board STATUS	
PSE-32	4R 2	J	] 3 🌑 ]		4		5 🕘 🔛	6	0	7 🔍 🔄	8	
٠	10	٠	11 🔘		12 🔵 🔤		13 🕘 🔛	14	0	15 🔘	16 🥥	
۰	18	۰	19 🔘		20 🔘		21 🔘	22	•	23 🔘	24 🥥	
PortStatus	Board	Setting								Station1: Read c	onfiguration pa	ameter done!!
oE Boa	rd Sta	atus					Station: 1	PSE-324R		Station1: Read c Disconnect all se Connect all serve	rver	ameter done!!
PORT:	1-1	1.2	1-3	1-4	1-5	1-6	1-7	1-8		Station1: Read c Station1: Sent G	onfiguration par ET BOARD ST/	ATUS commanc
Shut Down	0	0	0	•		0		0		Station1: Read c Disconnect all se	rver	ameter done!!
Auto		•	•	•	•	•	•	•		Connect all serve Station1: Read c	onfiguration par	ameter done!!
Force	<u> </u>	<ul> <li>○</li> <li>✓</li> </ul>			~					Station1: Sent Fa Station1: Factory	setting restored	
AC Disconnect				~	~		~		Set	Station1: Sent GI Station1: Read c		
	(a)a)			0.040		1.00						
PORT:	1-9	1-10	1-11	1.12	1-13	1.14	1-15	1.16				
Shut Down	0	0	0	0	0	0	0	0				
Auto Force	8		•	•	•	•	•	•				
AC Disconnect			V	<b>V</b>	~	<b>V</b>	~		Set			
DC Disconnect									Set			
PORT:	1-17	1.18	1-19	1-20	1-21	1.22	1-23	1-24				
Shut Down	•	0	0	0		0	0	~				
Auto	•	•	•	۲	•	•	•	•				
Force	0	0	Ó	0			0	0	4-4	i e	m	
AC Disconnect	~	<b>v</b>							Set		-	in these
DC Disconnect			3 <b>—</b> 1	T.			<u></u>		3	Set Disable		Factory

#### **Port Status**

In the main page window, click "StatusDisp", and select "PortStatus", or click the "PORT STATUS" icon, the screen will show current status of each port and current power supply status of each module.

If all power modules are working normally, the "Sys. Power" will show a green light, if any module has failed, the light will turn to red.



## **GUI Version**

Click "StatusDisp", and select "GUI Version", the screen will show the version of the EMS utility

ation s	Port S GUT V	itatus ersion					PoE Name		LAN Setting		Board STATUS	3
PSE-32	4R 2		3 🌒		4		5	6	0	7 🕘 🔄	8 🕘	
۰	10		11 🔘		12 🔘 🔤		13 🔘	14	٠	15 🌑	16 🔵	
٠	18		19 🔘	-	20		21 🔘	22	0	23 🔘	24 🥥	
PortStatus PoE Boa	Boards ard Sta	- 1_					Station: 1	PSE-324R	_	Station1: Read Station1: Read Disconnect all s Connect all serv		8
PORT:	1-1	1-2	1-3	1-4	1-5	1-6	1.7	1-8		Station1: Read Station1: Sent G	configuration parameter done!! ET BOARD STATUS commar	nc
Shut Down Auto Force	0.0	•	•	0.0	•	•	•	0		Disconnect all s Connect all serv	er configuration parameter done!!	
AC Disconnect DC Disconnect	P L							₽ L	Set	Station1: Factor Station1: Sent G Station1: Read Station1: Sent F	y setting restored!! ET BOARD STATUS commar configuration parameter done!!	10
PORT:	1-9	1-10	1-11	1-12	1-13	1-14	1.15	1-16		Station . Factor	searing resorreur	
Shut Down Auto Force	•	•	•	•	•	•	•	•				
AC Disconnect DC Disconnect		ĭ □				<b>P</b>		₽ F	Set			
PORT:	1.17	1.18	1-19	1-20	1.21	1.22	1-23	1.24				
Shut Down Auto Force	•••	•	•	•	•	•••	•	•				M.
AC Disconnect				V	~				Set		III	

# **GUI Disconnect All**

Click the "GUI", and select "Disconnect All", or click the "GUI disconnect all" icon to disconnect the communication between GUI and PSE.

<u>C</u> onnect Disconnect		tion					PoE Name	LAN Setting		Board STATUS	
PSE	-324R 2	)(	3		• •	5	)	6	7 🔘		
• 🗶 📃	10	)	11 🔘 _	] 1	12 🔵 🔛	13		14 🥥	15 🥥	16 🥥 _	1
7	18	)	19 🥥 🔤	] 2	20 🔵 🔛	21	٠	22 🥥	23 🥥	24 🥥 _	
Module 1	eration :	Module 2	0 0	Module 3	0 0	Station: 1	ys. Powe		Station1: Sent G Station1: Read c Disconnect all se	onfiguration parame ET BOARD STATU onfiguration parame	IS command
48V F/	AN 3.3V	48V	FAN 3.3V	48V	48V 3.3		ys. rowe		Station1: Sent Fa	onfiguration parame actory setting!!	eter done!!
	1-1 O Unknown	48V 1-2 Unknown Open Circuit	FAN 3.3V 1-3 Unknown Open Circuit	1-4 Unknown Open Circuit	48V 3.3		1-7 Unknown Open Circuit	1-8 Unknown Open Circuit	Station1: Read of Station1: Sent Fa Station1: Factory Station1: Sent Gi Station1: Read of Station1: Sent Fa	configuration parame actory setting!! setting restored!! ET BOARD STATU configuration parame	IS command
Class Detect Status	1-1 Unknown Open Circuit	1-2 Dinknown	1-3 O Unknown	1-4 O Unknown	1-5 O Unknown	1-6 Unknown	1-7 Unknown	1-8 Unknown	Station1: Read of Station1: Sent Fa Station1: Factory Station1: Sent Gi Station1: Read of Station1: Sent Fa	configuration parame actory setting!! setting restored!! ET BOARD STATU configuration parame actory setting!!	IS command
Class Detect Status Class	1-1 Unknown Open Circuit	1-2 Unknown Open Circuit 1-10 Unknown	1-3 Unknown Open Circuit 1-11 Unknown	1-4 Unknown Open Circuit 1-12 Unknown Unknown	1-5 Unknown Open Circuit 1-13 Unknown	1-6 Unknown Open Circuit	1-7 Unknown Open Circuit	1-8 Unknown Open Circuit	Station1: Read of Station1: Sent Fa Station1: Factory Station1: Sent Gi Station1: Read of Station1: Sent Fa	configuration parame actory setting!! setting restored!! ET BOARD STATU configuration parame actory setting!!	IS command

### File Open and Save

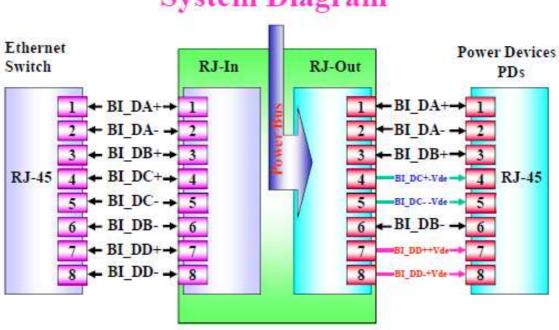
You may click "File" and select "Open", or click the "Open file" icon, to open the previous setting file. Click "Save", or "Save file" icon, to save the current setting.

GUI Con	lg. <u>S</u> tatusDis	o S <u>e</u> tting									
<u>O</u> pen <u>S</u> ave Login	select	tion					PoE Name	LAN Setting		Board STATUS	
<u>M</u> odify PSW <u>E</u> xit	4R 2	)(	3	]	4 🔘 🔛	5	>	6	7	8 🖉	1
	10 🤇	)(	11 🔘		12 🔵 🔛	13	)	14 🌑	15 🥥	16 🥥	1
17 🕘 🔛	18	)	19 🌑		20 🔍 🔛	21	)	22 🔵	23 🔵	24 🥥	1
PortStatus	BoardS	etting								configuration parameter done!! configuration parameter done!!	
Poe Op	eration	Status:				Station: 🗍	PSE-324R		Disconnect all s Connect all serv	erver	
Module 1	AN 3.3V	Module 2 48V	<b>F</b> AN 3.3V	Module 3	<b>4</b> 8V 3.3		ys. Powe	r: 🔴	Station1: Sent G Station1: Read Disconnect all s Connect all serv	ET BOARD STATUS commanc configuration parameter done!! erver	
40V F.									Station1: Sent F	actory setting!!	
40v r.	14	1.2	1.3	14	1.5	1.6	1-7	1-8	Station1: Sent F Station1: Factor Station1: Sent G Station1: Read	actory setting!! y setting restored!! ET BOARD STATUS commanc configuration parameter done!!	
	1-1	Lat.		1-4			1.7		Station1: Sent F Station1: Factor Station1: Sent G Station1: Read Station1: Sent F	actory setting!! y setting restored!! ET BOARD STATUS commanc configuration parameter done!!	
Class	1-1 Disknown	Lat.		anters.			1-7 Unknown Open Circuit	1-8 Unknown Open Circuit	Station1: Sent F Station1: Factor Station1: Sent G Station1: Read Station1: Sent F	actory setting! y setting restored!! ET BOARD STATUS commanc configuration parameter done!! actory setting!!	
Class	1-1 Disknown	1-2 Dirknown	1-3 O Unknown	1-4 O Unknown	1-5 O Unknown	1-6 O Unknown	Unknown	Unknown	Station1: Sent F Station1: Factor Station1: Sent G Station1: Read Station1: Sent F	actory setting! y setting restored!! ET BOARD STATUS commanc configuration parameter done!! actory setting!!	
	1-1 Unknown Open Circuit	1-2 Unknown Dpen Circuit	1-3 Unknown Open Circuit	1-4 Unknown Open Circuit	1-5 Unknown Open Circuit	1-6 O Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Station1: Sent F Station1: Factor Station1: Sent G Station1: Read Station1: Sent F	actory setting! y setting restored!! ET BOARD STATUS commanc configuration parameter done!! actory setting!!	
Class Detect Status Class	1-1 Unknown Open Circuit	1-2 Unknown Dpen Circuit	1-3 Unknown Open Circuit	1-4 Unknown Open Circuit	1-5 Unknown Open Circuit	1-6 O Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Station1: Sent F Station1: Factor Station1: Sent G Station1: Read Station1: Sent F	actory setting! y setting restored!! ET BOARD STATUS commanc configuration parameter done!! actory setting!!	
Class Detect Status	1-1 Unknown Open Circuit	1-2 Unknown Open Circuit 1-10 Unknown	1-3 Unknown Open Circuit	1-4 Unknown Dpen Circuit 1-12 Unknown	1-5 Unknown Dpen Circuit 1-13 Unknown	1-6 Unknown Open Circuit 1-14 Unknown	Unknown Open Circuit	Unknown Open Circuit 1-16 Unknown	Station1: Sent F Station1: Factor Station1: Sent G Station1: Read Station1: Sent F	actory setting! y setting restored!! ET BOARD STATUS commanc configuration parameter done!! actory setting!!	
Class Detect Status Class	1-1 Unknown Open Circuit 1-9 Unknown Unknown	1-2 Unknown Open Circuit 1-10 Unknown Unknown	1-3 Unknown Open Circuit	1-4 Unknown Dpen Circuit 1-12 Unknown Unknown	1-5 Unknown Open Circuit	1-6 Unknown Open Circuit 1-14 Unknown Unknown	Unknown Open Circuit 1.15 Unknown Unknown	Unknown Open Circuit 1:16 Unknown Unknown	Station1: Sent F Station1: Factor Station1: Sent G Station1: Read Station1: Sent F	actory setting! y setting restored!! ET BOARD STATUS commanc configuration parameter done!! actory setting!!	

# **5. Technical Specification**

PARAMETER	PSE-608R	PSE-616R	PSE-624R			
Data Ports	8	16	24			
PoE Ports	8	16	24			
Console Port	1× R.	J45 console interface	e for management			
Output power	DC 54V@600mA (AC input)					
(per port)		Vo=Vi-1V (DC	C input)			
Power consumption	264W	E29\\/	700\\/			
(maximum)	20477	528W	792W			
AC Input		100~240VAC,5	0-60Hz			
DC Input		DC -42V ~ -	57\/			
(Non-isolated)		DC -42 V	51 V			
	C	Dperating Temperatu	ıre: 0°C ~40°C			
Environment	Storage Temperature: -20°C ~80°C					
	Hun	(non condense)				
Dimensions	430(W) x 2	90(D) x 44(H)	430(W) x 400(D) x 44(H),			
	19" Rack	-Mount / 1U	19" Rack-Mount / 1U			
Weight	3.6kg	4.9kg	6.5kg			

PARAMETER	PSE-608RI	PSE-608RI+	PSE-616RI			
Data Ports	8	8	16			
PoE Ports	8	8	16			
Console Port	1× R.	I45 console interface	e for management			
Output power	DC 54V@600mA (AC input)					
(per port)		DC 51V@600mA	(DC input)			
Power consumption	264W@AC	264W@AC	528W@AC			
(maximum)	150W@DC	264W@DC	300W@DC			
AC Input		100~240VAC,5	0-60Hz			
DC Input		DC 40V~6	0)/			
(isolated)		DC 40V~0	00			
	C	Dperating Temperatu	ıre: 0°C ~40°C			
Environment	S	Storage Temperature	e: -20°C ~80°C			
	Hun	(non condense)				
Dimensions	430(W) x 2	90(D) x 44(H)	430(W) x 400(D) x 44(H),			
Dimensions	19" Rack	-Mount / 1U	19" Rack-Mount / 1U			
Weight	4.6kg	5.6kg	7.2kg			



# System Diagram