

Dataprodukter utöver det vanliga

Beställningsnummer: 8 portar: 20100901 16 portar: 20100902 24 portar: 20100903

Multiport Gigabit PoE Injector

(AC+DC Input, PoE Midspan)

USER'S MANUAL







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1. Introduction

The 2010090(1,2,3) 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 2010090(1,2,3) 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 2010090(1,2,3) and verify them against the checklist below.

Power Cord x 1 Bracket x 2 (for 19" rack mounted) CD-ROM x 1 (Software Utility + User Manual)

Compare the contents of your 2010090(1,2,3) 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 2010090(1,2,3) and gives a physical and functional overview.

Physical Dimension

2010090(1,2,3) physical dimension is: 430mm x 290mm x 44mm (Lx W x H), 2010090(1,2,3) is 430mm x 407mm x 44mm (1U, 19" or 23" Rack mountable).

Front Panel

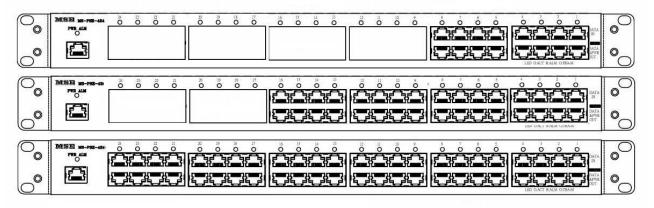


Figure 2-1. The Front panel of 2010090(1,2,3)

The Front Panel of the 2010090(1,2,3) consists of $8/16/24 \times RJ-45$ Ethernet ports (data), $8/16/24 \times RJ-45$ PoE ports (data + power), $8/16/24 \times LED$ port indicators, one LED power indicator and one RJ-45 remote control port (include one LED).

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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
DIAG	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
	On	Orange	The port has been shutdown
Ports	Oli	Orange	No power feeding
FOITS	On	Red	Alarm
	Oli	neu	No power feeding
	Off		Unknown device attached
	Oli		No power feeding

Table 2-1. The Description of LED Indicators

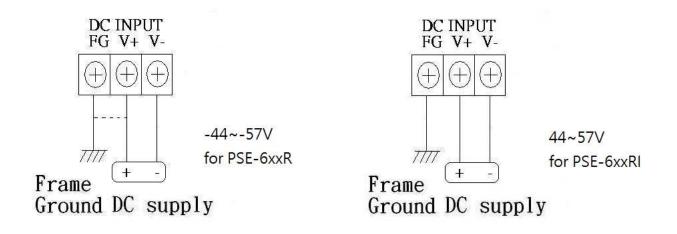
Rear Panel



The AC inlet, DC input terminal, and 4 Ventilation fan are located at the rear panel. The device will work with AC in the range 100-240V AC, 50-60Hz. Or work with DC $(-44\sim-57VDC \text{ for } 2010090(1,2,3), 44V\sim57VDC \text{ for } 2010090(1,2))$







Power On

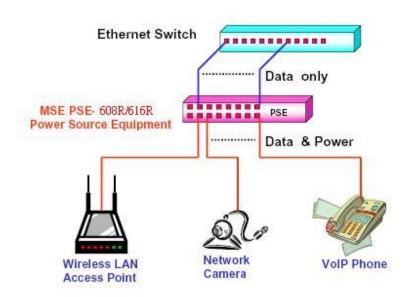
Connect the power cord to the power socket on the rear panel of the PSE. The other side of power cord connects to the power outlet. The internal power supply of the PSE works with voltage range of AC in the 100-240VAC, frequency 50~60Hz, or with voltage range of DC in the -44~-57VDC (44~57V for 2010090(1,2)). 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

2010090(1,2,3) can remotely manage the PoE via the network. To manage 2010090(1,2,3) , you must to set the 2010090(1,2,3) TCP/IP parameter.

2010090(1,2,3) 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

2010090(1,2,3) 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 2010090(1,2,3)
- 3. Use RJ45 cable, connect 2010090(1,2,3) direct to your PC.
- 4. Make sure the 2010090(1,2,3) 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.





http://192.168.1.10/ - Microsoft Internet Explorer			
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	USER LOG IN		
	Site: 192.168.1.1	0	
	ID:		
	Password:		
	OK		
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🛂 開始 🗿 🖄 😂 🔌 🐣 NetClient	🛤 Netchent	🚈 http://192.168.1.10/)彭 🕏 🥵 🙆 😻 🔞 下午 04:29

- 9. Key in ID (user name) and password to enter PoE TCP/IP parameter setting. Default ID and password is "admin" and "system".
- 10. 2010090(1,2,3) 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.

	既的最愛(▲) 工具(I) 説明(Ⅱ)		
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D 🕘 http://192.168.1.10/			💌 🔁 移至 連結
lministrator Setting <u>CP Mode</u> <u>DP Mode</u> <u>ART</u>	Administrator Setting		
set 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 0	
	Gateway	192 168 1 1	
	IP Configure	⊙ Static ○ DHCP	
	Password Setting		
	Username	admin max:15	
	Password Confirm	•••••• max:15	
		Update	
	Load Default Setting to EEPROM	Load	
	P		

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.





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

🚰 http://192.168.1.10/ - Microsoft	Internet Explorer		
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網址①) 🕘 http://192.168.1.10/	*		✓ ● 移至 連結 ※
Administrator Setting TCP Mode UDP Mode UART	TCP Control		
Reset Device	Item	Value	
	Telnet Server/Client	⊙ Server ○ Client	O Disable
	Port Number	23	
	Remote Server IP Address	210 200 181	.102
	Client mode inactive timeout	20 minute (1~99	,0=Disable)
	Server mode protect timeout	0 minute (1~98,0=Disal	ole,99=Can't replace)
		Update	
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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 2010090(1,2,3) don't used in the Telnet terminal.





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

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D 🕘 http://192.168.1.10/	1		🔽 🋃 移至 🗦	連結
lministrator Setting CP Mode DP Mode ART	UDP			
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	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	-





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

	58.1.10/ - Microsoft m) tost m #651				
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網址(D) 🕘 http					💌 🛃 移至 連結 🎽
Administra TCP Mode UDP Mode UART		UART Control			
Reset Devi	<u>ce</u>	Item			Setting
		Mode	>		R\$232 🗸
		Baudra	ite		9600 🗸
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		Parity T	уре		none 💌
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		Delimit	er	□ Character 1: ⁰⁰ , □ Character 1: ⁰⁰ , □ Character 1: ⁰⁰ , □ Character	45/2040-0-0-0-7x
				Update	
ê		1			● 網際網路
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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.

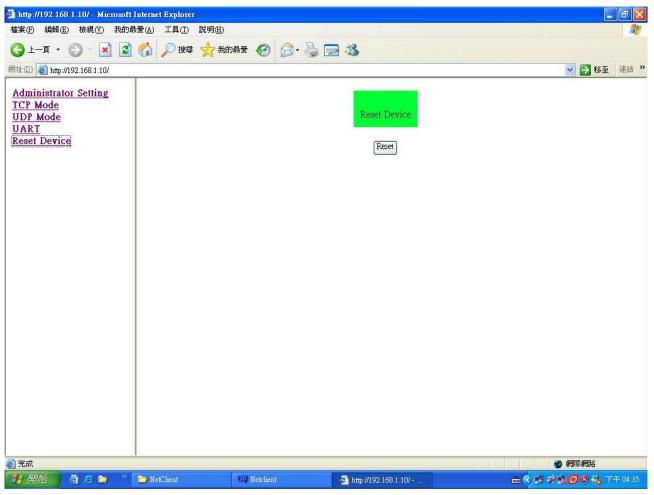
Hardware Flow Control: Set to none flow control for PoE operation.

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





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 compatible with Window 10 and below. 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.







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 **Display PSE station** PSE station name&IP setting Display page select PSE port name setting legend tool LAN MAIN File GUI Config. Stat. Setting LAN Setting Station Selection 2 3 6 🔵 7 8 1 🔘 4 🌑 5 11 🥥 12 13 15 🔵 16 9 🌑 10 14 19 🔵 20 23 🔵 24 17 18 🥥 22 PortStatus BoardSetting Station: 0 **Poe Operation Status:** Module 1 Module 2 Module 3 Sys. Power: 48V 🔺 FAN 3.3V 48V FAN 3.3V 48V 48V 3.3V Port 0 Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Cass Unknown Detect Status Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unkno Unknown Unknown Unknown Unknown Unknown Unknown Unkno Port 8 Port 9 Port 10 Port 11 Port 12 Port 13 Port 14 Port 15 lass Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknowr Detect Status Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Port 16 Port 17 Port 18 Port 19 Port 20 Port 21 Port 22 Port 23 lass Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Detect Status Unknown Unknown Unknown Unknown Unknown Unknown Unknowr Unknown new-netdient 1017 1 1 1 12:42 PSE power & fan alarm indicator message window PSE port 9~16 status PSE alarm summary PSE port 1[']~8 status PSE port 17~24 status





System Login

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

Station	Selection	on					PoE Name	LAN Settir	ig	
• • <u> </u>	2 🌒		3		4 🎱 🔄	5	۰	6	7	8 🌒
• 🕘 🔄	10 🥥		11 🔘		12	13	۰	14 🥥	15 🔘	16 🥥
17 🕘 🔛	18 🌒		19 🔵		20	21	۵	22 🔵 🔛	23 🔵	24 🔵
PortStatus	BoardSetti	ing								
Poe Op	eration St	atus:				Station: 🛛				
					Login Me					
	Unknown U	48V	FAN 3.3v Port 2	/ 48V Port 3			enter	7 Unknown		
Class Detect Status	Port 0 F Unknown U Unknown U Port 8 F Unknown U	Port 1	Port 2	Port 3	Please	enter pa		7 nown		
Class Detect Status Class Detect Status	Port D F Unknown U Unknown U Port 8 F Unknown U Unknown U Unknown U	Port 1 Inknown Inknown Port 9 Inknown	Port 2 Unknown Unknown Port 10 Unknown Unknown	Port 3 Unknown Unknown Port 11 Unknown	Please	enter pa Unknown Pot 13	enter Unknown Port 14 Unknown	Port 15 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	Selec	tion					PoE Name	LAN Setti		
-	-324R 2)	3		4 🌒 🔄	5		6	7	8 🕘
• •	10		11 🔘		12	13		14 🕘 🔄	15 🔵	16 🔵
17 🔵 🔛	18		19 🔵		20	21		22	23 🔵	24 🥥
Poe Op Module 1	Boards					Station:		x		configuration parameter done!! configuration parameter done!! erver
00	AN 3.3V	● 48∨	FAN 3.3		Password Edit					
	Port 0	Port 1	Port 2	Port 3 2			sav	e		
	Unknown	Port 1 Unknown Unknown	Port 2 O Unknown Unknown	Port 3 2 3 Unknc Unknown		OTINTOWIT	Sav clos			
Class Detect Status	Unknown	Unknown	Unknown	Unkng 3		Port 13	clos	e		
Detect Status	Port 8 Unknown Unknown	Unknown Unknown	Unknown Unknown	Unknown			clos	е		
Detect Status Class	Port 8 Unknown Unknown	Port 9 Unknown	Unknown Unknown Port 10 Unknown	Port 3 Unkno Unknown	Port 12	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.

tation	Select	LAN Set	Chickey Chicke				PoE Name	LAN Setti	ng	Board STATUS
PSE-	324R 2)	3		4 🌒 🔜	5)	6 🎱 🔄	7 🔘	8 🕘
•	10)	11 🔍		12 🔵 🔛	13)	14 🥥	15 🥥	16 🥥
• • • <u> </u>	18)	19 🧶 _		20 🔵 🔛	21)	22 🥥	23 🥥	24 🥥
PortStatus	BoardS						_		Station1:	Read configuration parameter done!! Read configuration parameter done!!
Poe Op	eration					Station: 1	PSE-324R		Connect Station1:	all server Read configuration parameter done!!
Module 1	•	Module 2		Module 3	0 0	S	ys. Powe	ri 🕘	Station1:	Sent GET BOARD STATUS commanc Read configuration parameter done!! ect all server all server
48V F/	AN 3.3V	48V	FAN 3.3V	48V	48V 3.3	3∨				Read configuration parameter done!!
										Sent Factory setting!
	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	Station1: Station1: Station1:	Factory setting restored! Sent GET BOARD STATUS commanc Read configuration parameter done!!
	1-1				0				Station1: Station1: Station1: Station1:	Factory setting restored! Sent GET BOARD STATUS command
Class	1-1 Unknown	1-2 Dunknown Open Circuit	1-3 Unknown Open Circuit	1-4 Unknown Open Circuit	1-5 Unknown Open Circuit	Unknown	Unknown	1-8 Dunknown Open Circuit	Station1: Station1: Station1: Station1:	Factory setting restored!! Sent GET BOARD STATUS commanc Read configuration parameter done!! Sent Factory setting!!
Class	1-1 Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Station1: Station1: Station1: Station1:	Factory setting restored!! Sent GET BOARD STATUS commanc Read configuration parameter done!! Sent Factory setting!!
	1-1 Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Station1: Station1: Station1: Station1:	Factory setting restored!! Sent GET BOARD STATUS commanc Read configuration parameter done!! Sent Factory setting!!
Class retect Status Class	1-1 Unknown Open Circuit 1-9 Unknown	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Station1: Station1: Station1: Station1:	Factory setting restored!! Sent GET BOARD STATUS commanc Read configuration parameter done!! Sent Factory setting!!
Class retect Status	1-1 Unknown Open Circuit 1-9 Unknown	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit	Unknown Open Circuit 1-15 Unknown	Unknown Open Circuit	Station1: Station1: Station1: Station1:	Factory setting restored!! Sent GET BOARD STATUS commanc Read configuration parameter done!! Sent Factory setting!!
Class retect Status Class	1-1 Unknown Open Circuit 1-9 Unknown Unknown	Unknown Open Circuit 1-10 Unknown Unknown	Unknown Open Circuit 1-11 Unknown Unknown	Unknown Open Circuit 1-12 Unknown Unknown	Unknown Open Circuit 1-13 Unknown Unknown	Unknown Open Circuit 1-14 Unknown Unknown	Unknown Open Circuit 1-15 Unknown Unknown	Unknown Dpen Circuit	Station1: Station1: Station1: Station1:	Factory setting restored!! Sent GET BOARD STATUS commanc Read configuration parameter done!! Sent Factory setting!!



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.

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	TCP/IP Clie	ent Connection					
Station	1-12	Station 13	-24				
Station: St	ation Name:	Address:	Port:	PoE IP		Status:	
1 🔘 🗌				Setting	Connect	MemoStatus	
2 🔘 🥅				Setting	Connect		
3 🔘 🗌				Setting	Connect		
4 🔘 🗌				Setting	Connect		
5 🔘 🥅				Setting	Connect		
6				Setting	Connect		
7 🔘 🗌				Setting	Connect		
8 🔘 🗌				Setting	Connect		
9 🔘 🗌				Setting	Connect		
10 🔘 🗌				Setting	Connect		
11 🔘 🗌				Setting	Connect		
12				Setting	Connect		
View	E	lit			Cha	ng Browse	CLOSE

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).

Station 1-12	Station 13	-24				
ation: Station Name	Address:	Port:	PoE IP		Status:	
PSE-324R	192.168.1.10	23	Setting	Connect	MemoStatus	
			Setting	Connect		
			Setting	Connect		
			Setting	Connect		
			Setting	Connect		
			Setting	Connect		
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			Setting	Connect		
			Setting	Connect		
o 🕥 📃			Setting	Connect		
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2 🕘 📃			Setting	Connect		
		12				

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.

<u>Connect</u> Disconnect		ion					PoE Name	LAN Setting		
PSE	-324R 2		3		4 🌒 🔄	5	•	6	7	8 🕘
•	10)	11 🔘		12	13	•	14 🕥	15 🔵	16 🕘
7 🕘 🔛	18)(19 🌒		20	21	۰	22 🔵	23 🔵	24 🕘
Poe Op	eration \$	Status: Module 2		Module	3	Station: 0			Station1: Sent Gi	
48V F/	AN 3.3V	48 V	FAN 3.3	/ 48V	● (48∨ 3.	S	iys. Powe	er: 🕘	Station I: Head o Disconnect all se	onfiguration parameter done!!
Class	Port 0	Port 1 Unknown Unknown	Port 2 Unknown Unknown	Port 3 Unknown Unknown	Port 4 Unknown Unknown		Port 6 O Unknown Unknown	Port 7 Port 7 Unknown Unknown		onfiguration parameter done!!
Class Detect Status Class	Port 0 Unknown Unknown Port 8 Unknown	Port 1 Unknown Unknown Port 9 Unknown Unknown	Port 2 Unknown Unknown Port 10 Unknown	Port 3 Unknown Unknown Port 11 Unknown	Port 4 Unknown Unknown Port 12 Unknown	SV Port 5 Unknown Unknown Port 13 Unknown	Port 6 Unknown Unknown Port 14 Unknown	Port 7 Unknown Unknown Port 15 Unknown		onfiguration parameter done!!
Class Detect Status	Port 0 Unknown Unknown Port 8 Unknown	Port 1 Unknown Unknown Port 9	Port 2 Unknown Unknown Port 10 O	Port 3 Unknown Unknown Port 11	Port 4 Unknown Unknown Port 12 O	Port 5 Unknown Unknown Port 13	Port 6 Unknown Unknown Port 14 O	Port 7 Unknown Unknown Port 15		onfiguration parameter done!!





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	ion					PoE Name	LAN Setting		Board STATUS
pse	e324r 2		3		4 🌒 🔜	5)	6	7	8
۵	10		11 🔘	1	12	13)	14 🥥	15 🔘	16 🕘
7 🕘 🔛	18 🥥)	19 🥥] :	20 🔵 _	21)	22 🔘	23 🔵	24 🥥
Module 1	BoardSe	Status: Module 2-	F AN 3.3V	Module 3	487 33		pse324r ys. Powe	r: 🕙	Connect all serve Disconnect all ser Connect all serve Station1: Read co	rver
48V F.	AN 3.3V	48V	1 MIN 0.01	401						
Class	1-1 Unknown	1-2 Unknown Open Circuit	1-3 Unknown Open Circuit	1-4 Unknown Open Circuit	1-5 Unknown Open Circuit	1-6 Unknown Open Circuit	1-7 Unknown Open Circuit	1-8 Unknown Open Circuit		
Class Detect Status	1-1 Unknown Open Circuit	1-2 Unknown	1-3 O Unknown	1-4 Unknown	1-5 Unknown	Unknown	Unknown	Unknown		
Class Detect Status Class Detect Status	1-1 Unknown Open Circuit	1-2 Unknown Open Circuit 1-10 Unknown	1-3 Unknown Open Circuit	1-4 Unknown Open Circuit 1-12 Unknown Unknown	1-5 Unknown Open Circuit 1-13 Unknown	Unknown Open Circuit	Unknown Open Circuit 1-15 Unknown	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.

Can MAIN	usDisp S <u>e</u> tting		/	Dec	Name	AN Setting	PORT BOARD STATUS	
Station Sel	ection					AN Setting	PORT STATUS STATUS	
9		TCP/IP Cli	ent Connection	i ,				3
PortStatus	Stat	ion 1-12	Station 13-	24			-1	ad
Poe Operati	Station	Station Name:	Address:	Port:	PoE IP		Status:	stor
Module 1	1 🔴	PSE-324R	192.168.1.10	23	Setting	DisConnect	Station1: Read configuration parameter dou Station1: Read configuration parameter dou Disconnect all server	stor ul.
48V FAN	2				Setting	Connect	Connect all server Station1: Read configuration parameter do Station1: Sent GET BOARD STATUS com	
	3				Setting	Connect	Station1: Read configuration parameter do Disconnect all server Connect all server	the
1-1	4				Setting	Connect	Station1: Read configuration parameter dou Station1: Sent Factory setting!! Station1: Factory setting restored!!	
Class Unkno Detect Status Open	5 🕘				Setting	Connect	Station1: Sent GET BOARD STATUS com Station1: Read configuration parameter do Station1: Sent Factory setting!	
1.9	6				Setting	Connect	Station1: Factory setting restored!!	1
	7				Setting	Connect		Ē
Class Unkno Detect Status Unkno	8 🔘				Setting	Connect		10
1-17	9 🕘				Setting	Connect		
	10				Setting	Connect		1
Class Unkno Detect Status Unkno	11 🔘				Setting	Connect		
	12				Setting	Connect		ic 中 引
💫 😃 o 🖛 »	🕅 new-netc	dient1017					🖮 🖉 🖗 🕄 🏅 👘 🚮 🖗 🏹	T 03:20

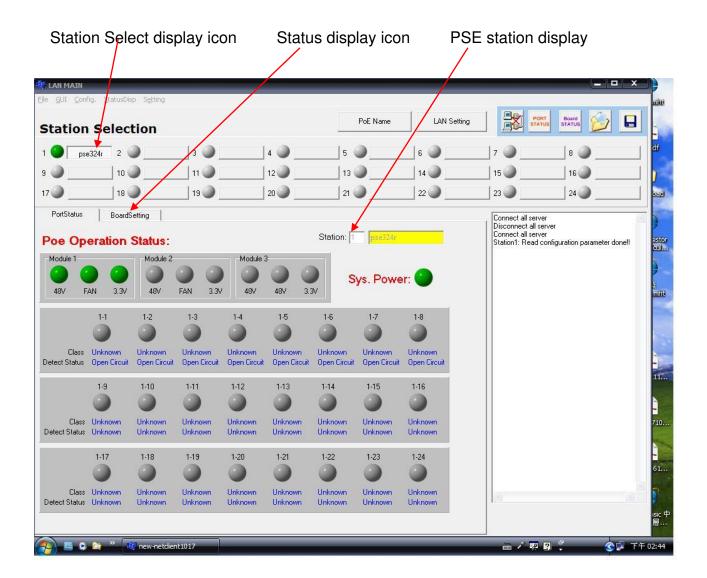




Station and Status Window Select

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.

le GUI Conf					PoE Name	LAN Setting	PORT Board STATUS
PSE	-324R 2		3	4 🌒	5	6	8
	10			112	1 12		15
/ 🖉 📃	18	٠	🦉 Port Nan	ne Setting			24
PortStatus	Board	Setting	-	Port Name s	etting		on1: Read configuration parameter done!!
Poe Op	eration	Status:	1 1.1	9 1.9	17 1-17	Module Select:	on1: Read configuration parameter done!! onnect all server nect all server
Module 1	cration	Module 2	2 1.2	10 1.10	18 1-18	24 Port -	on1: Read configuration parameter done!!
0			3 1-3	11 1-11	19 1-19	1	
48V F/	AN 3.3V	48V	4 1-4	12 1.12	20 1-20		
	1.1	1-2	5 1-5	13 1-13	21 1-21]	
			6 1-6	14 1-14	22 1-22]	
Class Detect Status	Unknown Open Circuit	Unknown Open Circuit	7 1.7	15 1-15	23 1-23	1	
	1-9	1-10	8 1-8	16 1-16	24 1-24		
				X Cancel	и ок		
Class Detect Status	Unknown Unknown	Unknown Unknown			•		
	1-17	1-18	1-19	1-20 1-21	1-22 1-23	1-24	
	0	0	0	0			
Class Detect Status	Unknown	Unknown Unknown	Unknown Unknown	Unknown Unknown Unknown Unknown	Unknown Unknown Unknown Unknown	Unknown Unknown	





Configuration

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

ati <u>Setu</u> <u>Eacti</u>	The second s	n					PoE Name	•	LAN Setting		Board STATUS
PSE-32	4R 2 🥥	ī	3		4		5 🕘 🔄	6		7	8
	10 🥥)(11 🔘		12		13 🌒 🔛	14		15 🔘	16 🕘
	18 🥥)(19 🥥		20 🔘 _		21 🕘	22		23 🔘	24 🥥
PortStatus	BoardSe	tting									nfiguration parameter done!!
oE Boa	rd Stat	us					Station:	PSE-324R		Station1: Read co Disconnect all serv Connect all server	nfiguration parameter done!! /er
PORT: Shut Down Auto Force C Disconnect C Disconnect Shut Down Auto Force C Disconnect C Disconnect	1-1 () () () () () () () () () ()	1-2 • • • • • • • • • • • • • • • • • • •	1-3 • • • 1-11 • • • • • • •	1-4 • • • • • • • • • • • • • • • • •	1-5 ••• ••• ••• ••• ••• ••• ••• •••	1-5 ••• •• •• •• •• •• •• •• •• •• •• •• •	1.7 • • • • • • • • • • • • • • • • • • •	1-8 • • • • • • • • • • • • • • • • • • •	Set	Station1: Read co Station1: Sent GE	nfiguration parameter done!! I BUARD STATUS commanc nfiguration parameter done!!
PORT: Shut Down Auto Force C Disconnect DC Disconnect	1-17 • •	1-18 • • •	1.19 • • • •	1-20 C C	1.21 • • •	1-22 • •	1-23 • •	1-24 • •	Set	≮ Set Disable	III Factory

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:

tation S	elec	tion				<u>.</u>	PoE Name		LAN Setting	g PORT STATUS Board STATUS
PSE-324	2 (≥	3 🌑		_ 4 🥥 _	5		6	<u> </u>	7 🖉 8 🕥
	10	<u>ا ا</u>	11 🥥		12	1	з 🥥	14	<u> </u>	15 🥥 16 🌑
۵	18)	19 🥥		20 🔘	2	1 🕘	22	●	23 🕘 24 🌑
PortStatus	Board	Setting								Connect all server
oE Boar	d Sta	itus				S	itation: 1	SE-324R		Station1: Read configuration parameter done!!
PORT:	-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8		
Shut Down		0	0	0	0	0	0	C		
- June	•	•	۲	۲	• C	omfirm				
Force		•	0	0	0	Are you sure to u		0		
NC DISCONNECC	2				M 1	10	ise Derauti varue		Set	
)C Disconnect						(1)是(1)	否N)			
PORT:	-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16		
Shut Down	•	۲	۲	•	۲	۲		•		
Auto		\odot	0	0	0	0	o l	0		
Force		0	0	0	0	0	0	0		
AC Disconnect				Г			Γ	Γ	Set	
)C Disconnect				Γ			Г			
PORT: 1	-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24		
Shut Down	•	۲	۲	۲	۲	۲	۲			
, into		C	0	0	0	0	0	0		
Force		0	0	0	0	0	0	0		
AC Disconnect		_		Γ			Γ	Γ	Set	

then click "Y" for the Factory Setting.





Factory setting as below:

Operation Mode → Auto (Auto, Force & Shutdown)

AC Disconnect \rightarrow On (On & Off)

DC Disconnect \rightarrow Off (On & Off)

<u>GUI Config.</u> Status tation Selec	oisp Setting					PoE Name	e	LAN Setting	PORT STATUS	Board STATUS
PSE-324R 2		3		4	1	5	6	•	7	8
)) 10	0	11		12	 	13		<u> </u>	15 🔘	16
)] 18	5	19		20		21	22	<u> </u>	23	24
PortStatus Board	Setting								Connect all server	
PoE Board St	atus					Station: 1	PSE-324R		Station1: Read cont Station1: Sent Factor Station1: Factory se	figuration parameter done!! ory setting!!
PORT: 1-1	1-2	1-3	1-4	1-5	1.6	1.7	1-8		Station1: Factory se Station1: Sent Factory se	ory setting!!
Shut Down C Auto O	•	•		•	•		•			
Force C	•	0	0	0	•	0	0			
AC Disconnect 🔽 DC Disconnect 🧮	N							Set		
PORT: 1-9	1.10	1.11	1.12	1.13	1.14	1-15	1-16			
Shut Down	•	•	•	•	•	•	•			
Auto O	ŏ	ŏ	ŏ	, in the second	Ö		Ö			
Force	•	0	0	0	0	0	\circ			
AC Disconnect		<u> </u>				Г	Г	Set		
DC Disconnect 🔲			Г			Γ				
PORT: 1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24			
Shut Down 💿	•	۲	۲	۲	۲	۲	۲			
Auto C Force C		0		0	C		0			
AC Disconnect									4	•
AC Disconnect		Ē						Set	Set Enable	Factory





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> Setur Eacto)	sp S <u>e</u> tting					PoE Name		LAN Setting		Board STATUS	
PSE-32		5	3		4		5 🌒	6	•	7	8	
	10	5	11		12		13	14		15 🔘	16	
•	18		19 🌒		20		21	22		23	24	
PortStatus	Board	Setting									onfiguration parameter done	
oE Boa	rd Sta	itus					Station:	PSE-324R		Station1: Read co Disconnect all ser Connect all serve		
PORT:	1-1	1-2	1-3	1-4	1.5	1-6	1-7	1-8	a bi	Station1: Read co Station1: Sent GE	onfiguration parameter done T BOARD STATUS comm	anc
Shut Down	0	0	•	0	•	0	•	0		Disconnect all ser		11
Auto	٠	۲	۲	۲	۲	۲	•	۲			onfiguration parameter done	dl
Force	•		0	0		\odot	0	0	a	Station1: Sent Fa Station1: Factory		
AC Disconnect				2					Set		T BOARD STATUS common priguration parameter done	
JC Disconnect		<u>.</u>				1.1			· · · · · · · · · · · · · · · · · · ·			995
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				
Auto	۲	۲	•	۲	۲	۲	•	•				
Force	0	۲	0	0	0	•	0	\odot				
AC Disconnect							~		Set			
DC Disconnect												
PORT:	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24				
Shut Down	0	0	0	0	0		0	~				
Auto	•	•	•	•	•		- i					
Force	0	0	۲	0	0	۲	۲	0				
AC Disconnect	~	~		~					Set	 ∢	m	
DC Disconnect				Γ						Set Disable	Factor	y



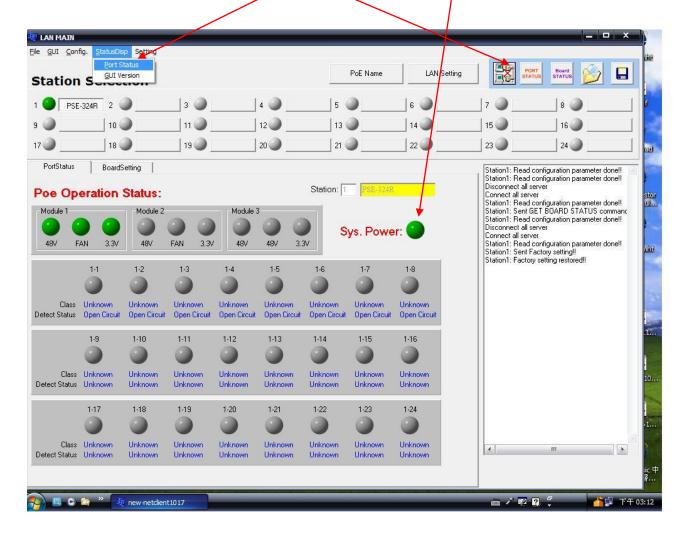


<u>User's Manual</u>

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 <u>G</u> UI V	ersion					PoE Nam	e	LAN Setting		Board STATUS	
PSE-32	24R 2		3		4		5	6	•	7	8 🌒 🔜	
)	10		11 🥥		12		13 🔵 🔄	14		15 🌒	16 🥥 🔛	
)	18		19 🔵		20		21 🕘 🔄	22		23 🔵	24 🕘 🔛	
PortStatus	Board	Setting								Station1: Read co	nfiguration parameter d	lone!!
oE Boa	rd Sta	itus					Station: 1	PSE-324R	-		nfiguration parameter d	lonell
PORT:	1.1	1-2	1-3	1-4	1-5	1.6	1-7	1-8		Station1: Read co	nfiguration parameter d FBOARD STATUS co	
Shut Down	•	0	•		•		•			Disconnect all serv	nfiguration parameter d /er	ione!!
Auto	۲	۲	۲	۰	۲	۲	۲	•			nfiguration parameter d	lonell
Force	•		0	0	0	0	0	0	-	Station1: Sent Fac Station1: Factory s	etting restored!!	
C Disconnect			~				V		Set	Station1: Sent GE	FBOARD STATUS co nfiguration parameter d	
C Disconnect								<u> </u>		Station1: Sent Fac Station1: Factory s	tory setting!!	
PORT:	1-9	1.10	1-11	1.12	1.13	1-14	1-15	1-16			oning rootorod.	
Shut Down	0	0		0	•	0	0	0				
Auto	۲	۲	•	•	۲	۲	•	•				
Force		0	0		0	0	0	0	-			
C Disconnect	V	V							Set			
C Disconnect				Γ								
PORT:	1-17	1.18	1-19	1-20	1-21	1-22	1-23	1-24				
Shut Down	0	0		0	0	0	0	C				
Auto	•	۲	•		•	•	•	•				
Force	0		0	0	•	0	•	۲				3
C Disconnect						~	V		Set		III	
C Disconnect				Г						Set Disable	Fac	ctory





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.

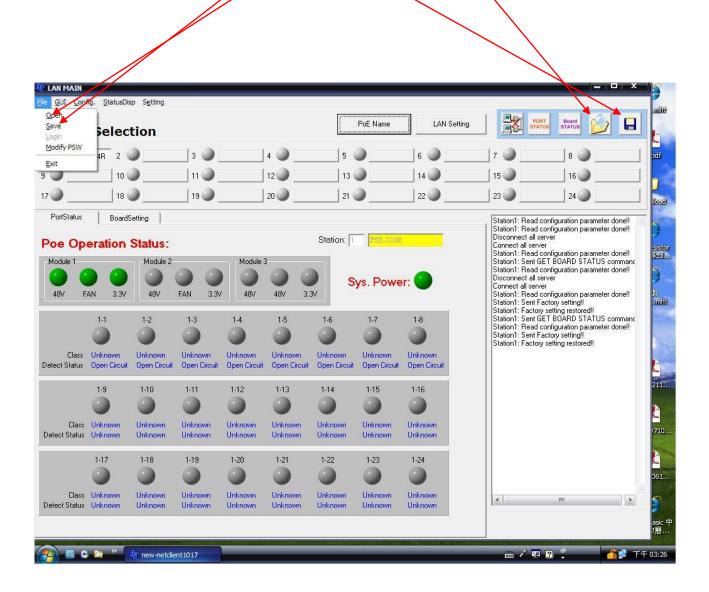
<u>C</u> onnec Disconn	2010	ion					PoE Name	LAN Settin		Board STATUS
PSE	-324R 2 🤇		3		4 🕘 🔄	5)	6	7	8 🕘
•	10)	11 🔘		12	13)	14 🥥	15 🥥	16 🌑
7 🕘 🔜	18 🥥		19 🔵		20 🔵 🔛	21)	22 🔘	23 🔘	24 🕘
Nodule 1	eration S	Status: Module 2-	•••	Module 3	•		ys. Powe	r: 🎱	Disconnect all se Connect all serve Station1: Read of Station1: Read of Station1: Read of Disconnect all serve Connect all serve	er configuration parameter done!! ET BOARD STATUS commanc configuration parameter done!! erver
48V F.	4N 3.3V	48V	FAN 3.3V	48V	48V 3.3	N			Station1: Sent Fa	configuration parameter done!! actory setting!!
	1-1 Unknown	48V 1-2 Unknown Open Circuit	FAN 3.3v	1-4 Unknown Open Circuit	48V 3.3 1-5 Unknown Open Circuit	1-6 Unknown Open Circuit	1-7 Unknown Open Circuit	1-8 Unknown Open Circuit	Station1: Sent Fa Station1: Factory Station1: Sent G Station1: Read o Station1: Sent Fa	configuration parameter done!! actory setting!! y setting restored!! ET BOARD STATUS commanc configuration parameter done!!
Class etect Status Class	1-1 Unknown Open Circuit	1-2 Unknown Open Circuit 1-10 Unknown	1-3 Unknown Open Circuit	1-4 Unknown Open Circuit 1-12 Unknown	1-5 Unknown Open Circuit	1-6 Unknown Open Circuit 1-14 Unknown	Unknown Open Circuit	Unknown Open Circuit	Station1: Sent Fa Station1: Factory Station1: Sent G Station1: Read o Station1: Sent Fa	configuration parameter done!! actory setting!! y setting restored!! ET BOARD STATUS commanc configuration parameter done!! actory setting!!
Class etect Status	1-1 Unknown Open Circuit	1-2 Unknown Open Circuit 1-10	1-3 Unknown Open Circuit	1-4 Unknown Open Circuit	1-5 Unknown Open Circuit 1-13	1-6 Unknown Open Circuit 1-14	Unknown Open Circuit	Unknown Open Circuit	Station1: Sent Fa Station1: Factory Station1: Sent G Station1: Read o Station1: Sent Fa	configuration parameter done!! actory setting!! y setting restored!! ET BOARD STATUS commanc configuration parameter done!! actory setting!!





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.



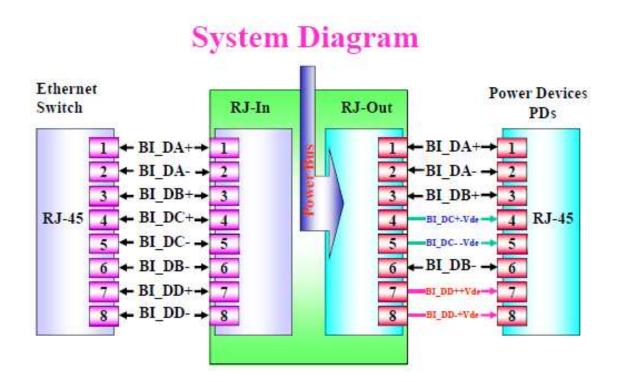




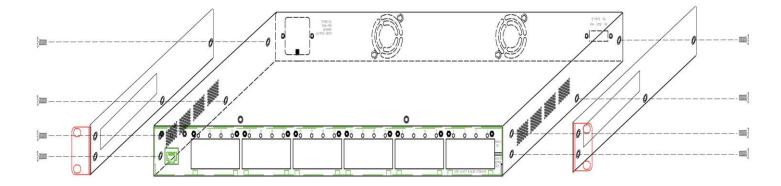
5. Technical Specification

PARAMETER	20100901	20100902	20100903
Data Ports	8	16	24
PoE Ports	8	16	24
Console Port	1× R.	I45 console interface	e for management
Output power		DC 52V@620mA	
(per port)		DC -42~-57V@620r	
		Pair 4/5(+),Pai	r 7/8(-)
Power consumption	258W	516W	774W
(maximum)	20011	01011	
AC Input		100~240VAC,5	0-60Hz
DC Input		DC -44V ~ -	57\/
(Non-isolated)			577
	C	Dperating Temperatu	ıre: 0°C ~40°C
Environment	S	Storage Temperature	:: -20° C ~80 °C
	Hun	nidity: 10%~95%RH	(non condense)
Dimonoiono(mm)	430(W) x 2	90(D) x 44(H)	430(W) x 407(D) x 44(H),
Dimensions(mm)	19" Rack	-Mount / 1U	19" Rack-Mount / 1U
Weight	3.6kg	4.9kg	6.5kg
PARAMETER	20100901		20100902
Data Ports	8	8	16
DoE Dorto	0	8	16
PoE Ports	8	0	
Console Port		I45 console interface	
Console Port			e for management
Console Port Output power		145 console interface	e for management (AC input)
Console Port		I45 console interface DC 52V@620mA	e for management (AC input) (DC input)
Console Port Output power		I45 console interface DC 52V@620mA DC 50V@620mA	e for management (AC input) (DC input)
Console Port Output power (per port)	1× R.	I45 console interface DC 52V@620mA DC 50V@620mA Pair 4/5(+),Pai	e for management (AC input) (DC input) r 7/8(-)
Console Port Output power (per port) Power consumption	1× R. 258W@AC	I45 console interface DC 52V@620mA DC 50V@620mA Pair 4/5(+),Pai 258W@AC	e for management (AC input) (DC input) r 7/8(-) 516W@AC 300W@DC
Console Port Output power (per port) Power consumption (maximum)	1× R. 258W@AC	I45 console interface DC 52V@620mA DC 50V@620mA Pair 4/5(+),Pai 258W@AC 248W@DC 100~240VAC,5	e for management (AC input) (DC input) r 7/8(-) 516W@AC 300W@DC 0-60Hz
Console Port Output power (per port) Power consumption (maximum) AC Input	1× R. 258W@AC	I45 console interface DC 52V@620mA DC 50V@620mA Pair 4/5(+),Pai 258W@AC 248W@DC	e for management (AC input) (DC input) r 7/8(-) 516W@AC 300W@DC 0-60Hz
Console Port Output power (per port) Power consumption (maximum) AC Input DC Input	1× R 258W@AC 150W@DC	I45 console interface DC 52V@620mA DC 50V@620mA Pair 4/5(+),Pai 258W@AC 248W@DC 100~240VAC,5	e for management (AC input) (DC input) r 7/8(-) 516W@AC 300W@DC 0-60Hz 7V
Console Port Output power (per port) Power consumption (maximum) AC Input DC Input	1× R 258W@AC 150W@DC	I45 console interface DC 52V@620mA DC 50V@620mA Pair 4/5(+),Pai 258W@AC 248W@DC 100~240VAC,5 DC 44V~5	e for management (AC input) (DC input) r 7/8(-) 516W@AC 300W@DC 0-60Hz 7V ure: 0°C ~40°C
Console Port Output power (per port) Power consumption (maximum) AC Input DC Input (isolated)	1× R. 258W@AC 150W@DC	I45 console interface DC 52V@620mA DC 50V@620mA Pair 4/5(+),Pai 258W@AC 248W@DC 100~240VAC,5 DC 44V~5 Derating Temperatu	e for management (AC input) (DC input) r 7/8(-) 516W@AC 300W@DC 0-60Hz 7V Ire: 0°C ~40°C e: -20°C ~80°C
Console Port Output power (per port) Power consumption (maximum) AC Input DC Input (isolated) Environment	1× R 258W@AC 150W@DC	I45 console interface DC 52V@620mA DC 50V@620mA Pair 4/5(+),Pai 258W@AC 248W@DC 100~240VAC,5 DC 44V~5 Derating Temperature	e for management (AC input) (DC input) r 7/8(-) 516W@AC 300W@DC 0-60Hz 7V Ire: 0°C ~40°C e: -20°C ~80°C
Console Port Output power (per port) Power consumption (maximum) AC Input DC Input (isolated)	1× R 258W@AC 150W@DC 0 5 Hun 430(W) x 2	I45 console interface DC 52V@620mA DC 50V@620mA Pair 4/5(+),Pai 258W@AC 248W@DC 100~240VAC,5 DC 44V~5 Deerating Temperature nidity: 10%~95%RH	e for management (AC input) (DC input) r 7/8(-) 516W@AC 300W@DC 0-60Hz 7V ure: 0°C ~40°C e: -20°C ~80°C (non condense)





Bracket Assemble Instruction Sheet



>mm :F1at head machine screws (B1ack)
Spec.:3x6mm ISO 5#

Q'TY:8pcs

