## TP-MS308/TP-MS316/TP-MS324 Power Source Equipment (AC+DC Input, Gigabit PoE Midspan)

# **USER'S MANUAL**





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### **1. Introduction**

Tycon's TP-MS308/TP-MS316/TP-MS324 is an AC+DC input, gigabit PoE Midspan (Power Sourcing Equipment), which injects power over data-carrying Ethernet cabling. The TP-MS308/TP-MS316/TP-MS324, support 8, 16 and 24 ports respectively in a 10/100/1000BaseT Ethernet network, over TIA/EIA-568 Category 5/5e/6 cabling. DC operating power, for data terminal units, is fed over data pairs C (4/5) and D (7/8) of the cabling. Remote management of up to 8 units via TCP/IP protocol is featured, which allows greater flexibility in the locating of network devices and significantly decreasing installation costs in many cases.

The TP-MS308/TP-MS316/TP-MS324 follows the IEEE 802.3af standard and is completely compatible with existing Ethernet switches and networked devices. This device 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 and 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 which are not equipped to receive power over Ethernet an external splitter in order to be powered. Contact TYCON for such a splitter.

#### Features

8/16/24 port Power Sourcing Equipment (PoE midspan)
Support 8/16/24 ports full load, max. 134W/268W/403W
IEEE802.3af compliance
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 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 24 port available
Remote manage up to 8 units via TCP/IP protocol
DC input available, can work with battery, non-interrupt performance.

#### Package Contents

Unpack the contents of the TP-MS308/TP-MS316/TP-MS324 and verify them against the checklist below.

TP-MS308/TP-MS316/TP-MS324 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 TP-MS308/TP-MS316/TP-MS324 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 TP-MS308/TP-MS316/TP-MS324 and gives a physical and functional overview.

#### **Physical Dimension**

TP-MS308/TP-MS316/TP-MS324 physical dimension is: 430mm x 290mm x 44mm (Lx W x H) (1U,19" or 23" Rack mountable)

#### Front Panel



Figure 2-1. The Front panel of TP-MS308/TP-MS316/TP-MS324

The Front Panel of the TP-MS308/TP-MS316/TP-MS324 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
			A network device is
	On	Green	detected(10/100/1000 Mbps)
	OII	Oreen	but no communication activity is
RJ45			detected
11040			The Ethernet port is transmitting
	Blinking	Green	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	Orango	The port has been shutdown
Ports	Oli	Orange	No power feeding
FUIIS	On	Red	Alarm
	On	Keu	No power feeding
	Off		Unknown device attached
	Off		No power feeding

Table 2-1. The Description of LED Indicators

#### **Rear Panel**



Figure 2-2. The Rear Panel of TP-MS308/TP-MS316/TP-MS324

The AC inlet, DC input terminal and 2 Ventilation fan are located at the rear panel of the TP-MS308/TP-MS316/TP-MS324. The device will work with AC in the range 100-240V AC, 50-60Hz. Or work with DC -48V(-42V~-57V).

#### **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 the voltage range of 100V-240VAC, frequency 50~60Hz, or with voltage range of DC -42V~-57V. Check the port, the power indicator will self-test on the front panel to see if power is properly supplied.

#### **Network Application**

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



#### TP-MS308/TP-MS316/TP-MS324

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

TP-MS308/TP-MS316/TP-MS324 can remotely manage the PoE via the network. To manage TP-MS308/TP-MS316/TP-MS324, you must to set the

TP-MS308/TP-MS316/TP-MS324 TCP/IP parameter.

TP-MS308/TP-MS316/TP-MS324 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

TP-MS308/TP-MS316/TP-MS324 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 TP-MS308/TP-MS316/TP-MS324.

3. Use RJ45 cable, connect TP-MS308/TP-MS316/TP-MS324 direct to your PC.

4. Make sure the TP-MS308/TP-MS316/TP-MS324 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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■生① 🍓 http://192.168.1.10/		🖌 💽 移至 連結 🎽
	DSER LOG IN	
	Site: 192.168.1.10	
	ID:	
	Password:	
	OK	
<b>1</b> 光成		<b>9</b> 852836

9. Key in ID (user name) and password to enter PoE TCP/IP parameter setting. Default ID and password is admin and system.

10. TP-MS308/TP-MS316/TP-MS324 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.

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812 🔘 🗃 http://192.168.1.10/			1	- 🔁 移至 連結	
Administrator Setting TCP Mode UDP Mode UART	Administrator Setting				
Reset Device	Kernel Version	V1.43 2010/	V1.43 2010/01/21		
	MAC Address	00:50:02:09:	70:00		
	Nickname	NeUART			
	IP Setting				
	IP Address	[192] [168] 1	10		
	Subnet Mask [255] 255] 0				
	Gateway	[192][168][1	192 168 1 1		
	IP Configure © Static © DHCP				
	Password Setting			0	
	Username	admin	max:15		
	Password		max:15		
	Confirm	•••••			
		Update	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.

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周生① 👌 http://192.168.1.10/	1	🚩 🛃 移至 逆結 "				
Administrator Setting TCP Mode UDP Mode UART	TCP Control	X				
Reset Device	Item	Value				
	Telnet Server/Client					
	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=Disable,99=Can't replace)				
	Update					

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.

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

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地心 💩 http://192.168.1.10/	1	💌 🛃 移至 - 連結 👌	
Administrator Setting ICP Mode UDP Mode UART	UART Control		
Reset Device	Item	Setting	
	Mode	R\$232 🛩	
	Baudrate	9600	
	Character Bits	8 🛩	
	Parity Type	nont 💌	
	Stop Bit	1 💌	
	Hardware Flow Control	nose 💌	
	Delimiter	Character 1: 00, Character 2: FF Silent time: 5 (1~255)*200ms Drop Character	
	Update		

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

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影绘 @ http://192.168.1.10/	1	💌 🄂 移至 運結 👌			
Administrator Setting TCP Mode UDP Mode UART	UART Control				
Reset Device	Item	Setting			
	Mode	R\$232 🛩			
	Baudrate	9600 😪			
	Character Bits	8 💌			
	Parity Type	none 👻			
	Stop Bit	1 💌			
	Hardware Flow Control	none 💌			
	Delimiter	Character 1: 00, Character 2: FF Silent time: 5 (1~255)*200ms Drop Character			
	Update				

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.



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### 3. Software Utility Installation

Before you start to remote configure the PD, please install the software utility. Through the software utility, you can easily to control the PD which connects with PoE and view the PD parameter information. The software utility provides GUI interface and it is easy to install. 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 "Next" 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.



#### System Login

Run the management software or click "File", and select "Login", the system will show the diagram below



Now 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.

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File <u>G</u> UI <u>C</u> onfig. <u>S</u> tatusDisp <u>T</u> est ∟Station Selection	
1 2 3 4	
REMOTE	Module 24 Port -
TCP/IP Status	Status
TCP/IP Client Connection	·
Station: Station Name: Address:	PoE IP
1 🕘 REMOTE 192.168.1.10	0 23 Setting
2	77 Password Edition
3	
	1 0000
4	2 POE save
5	3 MSE close
6	
7	Setting
8	Setting
Edit View	Chang Browse
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#### Edit Station TCP/IP

In the TCP/IP Status 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.

EP LAN MAIN	
File GUI Config StatusDisp	
11.38-1 1.38-2 MNMNMNMN TEST 1.1.37-1	
TCP/IP Status	Status:
TCP/IP Client Connection	
Station: Station Name: Address: Port:	POEIP
1 11.1.38-1 192.1.1.38 23	Setting
2	Setting
3	Setting
	Setting
5	Setting
6	Setting
	Setting
8	Setting
Edit View	Chang Browse
	<u>s</u>

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 TCP/IP Status 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).

I LAN MAI	N							
File GUI Co	ndig StatusDisp							
Station Select	tion 2	3 4	5	6	7	8	mal	
1.1.38-1	1.1.38-2 MNM	NMNMN TEST	1.1.37-1	1.1.37-2	123-9678	test-1	March R Dort	1
-							Module 8 Port	1
TCP/IP Statu					/		Status:	
	TCP/IP Client	Connection		/				
Station:	Station Name:	Address:	Port:	POEIP				
1 🔘	1.1.38-1	192.1.1.38	23	Setting				
2 🔘				Setting				
3 🕥		1		Setting				
4 🔘				Setting				
5 🕥				Setting				
6 🔘				Setting				
7 🕥	ſ			Setting				
8 🔘		1		Setting				
	Edit	liew		Chang Browse				-
			/				40	2

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.

#### **GUI Connect**

In the TCP/IP Status display window, edit TCP/IP parameter, then click "GUI" and select "Connect All" command or click "connect" icon, if the Station Select 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.

RELAN MAIN		
File GUI Config. StatusDap		
Ste Connect All Disconnect All 3 4	5 6 7 8	Mires.
		90- 90-
1.1.38-1 1.1.38-2 MNMNMNMN TEST 1.	1.37-1 1.1.37-2 12345678 test-1	Module 24 Port -
TCP/IP Status		Status:
TCP/IP Client Connection		Sent GET BOARD STATUS command!
a feet state and a second state of the		Read configuration parameter done!
Station: Station Name: Address:	Port: PoE IP	
1 🥥  1.1.38-1  192.1.1.38	23 Setting	
2	Setting	
3	Setting	
4	Setting	
5 🕘	Setting	
6	Setting	
7 🕘 🔽	Setting	
8	Setting	
Edit View	Chang Browse	
		(C) 3
		4 2

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.

In the TCP/IP Status window, 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.

NU LAN MAIN	
File GUI Config. StatusDisp Test	
Station Selection 1 2 3 4 5 1.1.38-1 1.1.38-2 MINMANNAN 1.1.37-1	6 7 8 11.137-2 12345678
	1:1:37-2 12345578 Module 8 Port
TCP/IP Status Port Status Board Status	Status: Connect all server
TCP/IP Client Connection	Sent GET BOARD STATUS command! Read configuration parameter done!
Station: Station Name: Address: Port	
1 1.1.38-1 192.1.1.38 23	Setting
2	Setting
3 🔴 🔽 👘	Setting
4	Setting
5 🔴	Setting
6	Setting
7 🕒	Setting
8	_ Setting
Edit	Linang srowse

#### Station and Status Window Select

The PSE management software can monitor 8 PSE simultaneously. In the GUI Disconnect mode, only the TCP/IP Status display window can be used to set the TCP/IP parameter. In the GUI Connector mode, there three display windows can choose - TCP/IP Status/Port Status/Board Status.

Port status and Board Status 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.

Station Select display icon		Status displa	ay icon		
File GUI Config. StatusDisp Test				<u></u>	
Station Selection	5	6 7	8		
9 9 🥖 🌒		•		PORT STATUS	
1.1.38-1 11-52 MINMINIM	1.1.37-1	1.1.37-2 12345678		Module 8 Port 👻	
TCP/IP Status   Port Status   Board Status				Status	
TCP/IP Client Connection				Read configuration parameter done!! File opened!! Send BOARD SETTING command!	~
Station: Station Name: Address:	Port:	PoE IP			
1 🕘 1.1.38-1 [192.1.1.38	23	Setting			
2		Setting			
3 🔴		Setting			
4		Setting			
5 🔴		Cotting			
6	J - '	Setting			
7 🔴 🔽		Setting			-
8 🕘 🔽		Setting			
Edit View		Chang Browse			( <b>x</b> )

#### Configuration

In the "Module" window, select the suitable port that you require, then, 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:

LAN MAIN												86
GUI Config.	Stat	usDisp										
tation 5 Setup	_	$\sim$		3		4		5	6		8	Frances and the second
GetB	ury loardS	tatos	1									PORT Board STATUS
	-	-			1	-		•			-	
1,1.38-1	1.1	38-2	MNM	NMNM	1	TEST		11.274	1.1.3	12345678	test-T	Module: 24 Port -
CP/IP Status   F	Port St	atus B	oard St.	atus			52595					Status:
				194						1		Sent GET BDARD STATUS command!
PORT:	1	2	3	4	5	6	7	8		PoE Board	Status	
Show Down	C	0	C	c	C	C	0	C				
Auto		0	0.00	0.00	000	000	0.00	000				
Force	C	0	0	0	C	C	C	0	-			
AC Disconnect	•	Г	Г	Г	Г	Г	E	Г	Set			
DC Disconnect				1	13	1						
PORT:	9	10	11	12	13	14	15	16				
Show Down	C	0	C	C	0	C	C	C				
Auto	0	0	000	000	000		0	000				
Force	0			0		C	COO L	0				
AC Disconnect	-	-	5	-	Г	Г			Set			
DC Disconnect		Γ			П	Г	Г					
PORT:	17	18	19	20	21	22	23	24				
Show Down	5		0	C	C	C	0	C				
Auto	C	C	000	0	000	CC.	000	000				
Force	0		0	•	C	C	0	0	10			
AC Disconnect	Г	Г	Г	E	E	-	-		Set	1		
DC Disconnect	Г	Г	Г	Г	Г	Г	Г	Г		Set Enable	Factory	41 3

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)

LAN MAIN											
e GUI Config	Stat	usDirp									
Station Selection		2		3		4		5	6	7 8	
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1.1.38-1	1.15	38-2	MNM	NMNM		TEST		1.1.37-1	1.1.3	12345670 0.001	Module 24 Port •
TCP/IP Status   P	ort St.	stus B	oard SN	etus							Status:
PORT:	1	2	3	4	5	6	7	8		PoE Board Status	
Show Down	0	0	C	C	C	0	0	C			Read configuration parameter donell
Auto	•	C	C	3	C	C	č	Ċ			Sent GET BOARD STATUS command! Read configuration parameter done!!
Force	C	C	0	C	C	C	0	0			Sent Factory setting!
AC Disconnect	1	F	100	173	F	-	-	-	Set		Factory setting restored! Sent Factory setting!
DC Disconnect	Г	٢	E	E	Г	-	E	1			Factory setting restored! Sent GET BDARD STATUS command!
PORT:	9	10	11	12	13	14	15	16			Sent Factory setting! Factory setting restored!
Show Down	0	0	C	C	C	C	0	0			
Auto	0	0	6	C	5	C.	×.	č.			
Force	0	0	8	C C	č	0	Č.	0			
AC Disconnect	-	-	<b>F</b> 8	-1	-	-	-	-	Set		
DC Disconnect	Г	F	٢	Г	F	E.	F	F	39C		
PORT:	17	18	19	20	21	22	23	24			
Show Down		0	C	C	C	10	é	18			
Auto	C	5	C.	r	C	č	č	č			
Force	C	C	C	C	C	C	č	č			
AC Disconnect	-	F	T	T	F	F	1	-	Set		
DC Disconnect	10	F	1	P	F		-	1	244	Set Enable Factory	·

#### **Board Status**

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

tation Si Setur	200		Test								
	ory Joant S	<b>tettus</b> 39-2	MNM		(	4	ľ	5	6	7 8 7 12345678	Module 24 Port
CP/IP Status   P	Port St.	stus B	oard Sta	tus							Status:
PORT:	1	2	3	4	5	6	7	8		PoE Board Status	Set configuration done!! Send BOARD SETTING command! Set configuration done!!
Shut Down	C	0	0	C	C	C	C	C			Send BOARD SETTING command! Sent GET BOARD STATUS command!
Auto		C		č	Ċ.		C	c			Read configuration parameter donell File opened!
Force	C.	C	C	C	C	C	C	C			File opened!
AC Disconnect	11	-	-	-	F	F	-	-	Set		Disconnect all server Connect all server
DC Disconnect	•	1					r	F	26(		Sent GET BOARD STATUS command! Read configuration parameter done!
PORT:	9	10	11	12	13	14	15	16			Disconnect all server Connect all server Can't open Lan: 4
Shut Down	•	C	0	C	c	0	C	C			Can't open Larx 8 Sent GET BOARD STATUS command!
Auto	C	C	C	C	C	C	C	C			Read configuration parameter donell
Force	0	C	C	č	C	00	00	00			Sent GET BOARD STATUS command! Read configuration parameter done!
C Disconnect	F	10	F	P	F	F	-	A LOOM	Set		Sent Factory setting! Factory setting restored!
OC Disconnect	1	1		F	1	1	Ē	F	16		Sent GET BOARD STATUS command! Read configuration parameter done!
PORT:	17	18	19	20	21	22	23	24			File opened! Send BOARD SETTING command
Shut Down	C	C	0	C	C	C	C	C			Set configuration done! Send BOARD SETTING command
Auto	C	C	0	č	C	C	C	c			Set configuration donell Send BOARD SETTING command
Force	0	C	0	C	C	C	C	C			Set configuration done!!
	1	-	-	-	F	P	-	-	Set		Sent GET BOARD STATUS command! Read configuration parameter done!
AC Disconnect											

#### **Port Status**

In the "Module" window, select the suitable port that you require, then, 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



#### **GUI Disconnect**

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

GUI Cond a Connect Discourse		1		5		6	7		
11.381	1.1 38 2	MINHAMN	MR TEST		0 (11)	37-2	345678	9 	Module 24 Port -
Nodule 1	Port Status   eration AN 3.3V	Board Status   Status: Moduler 2 48V		Module 3	FAN 33	1000	s. Power	•	Status: Sent GET BDARD STATUS command! Sent GET BDARD STATUS command! Read configuration parameter done! Sent GET BDARD STATUS command! Read configuration parameter done! Sent GET BDARD STATUS command! Read configuration parameter done! Sent Factory setting! Factory setting restored!
Class etect Status	Port 1	Port 2 Disknown Open Cecuit	Port 3	Pot 4	Port 5	Poit 5	Port 7	Port 8	Sent Factory setting! Factory setting restored! Sent GET BDARD STATUS command! Sent Factory setting! Factory setting! Read configuration parameter done! Sent GET BDARD STATUS command! Sent GET BDARD STATUS command!
Gatt	Pot 9	Port 10	Port 11	Pot 12	Port 13	Pot 14	Port 15	Port 16	Read configuration parameter donell Sent GET BDARD STATUS command! Read configuration parameter donell Send GET PORT STATUS command!
	Open Crouit	Open Circuit Port 18	Doen Circuit Port 19	Open Circuit Post 20	Open Circuit Port 21	Open Circuit Port 22	Detect Good Port 23	and the second s	
Chan	Unknown	Unknown	Unknown	Unknown	Uriknown	Unknown	Unknown	Unknown	

#### 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	TP-MS308	TP-MS316	TP-MS324							
Data Ports	8	16	24							
PoE Ports	8	16	24							
Pass through Data Rates		10/100/1000Mbps								
Console Port	1× RJ45 co	onsole interface for m	anagement							
	Per port DC	48V@350mA 16.8	V(Maximum)							
Output power	Pair4/5(+),Pair7/8(-)									
	AC Disconnect									
Disconnection	(AC Disconnect and DC Disconnect display the detect									
	scheme being used and are for information only)									
Power consumption	134W	268W	403W							
(maximum)	10400	20077								
AC Input	100~240VAC,50/60Hz									
DC Input	DC -48V(-42V~-57V)									
	Operating Temperature: 0°C~65°C									
Environment	Storage Temperature: -20°C~80°C									
	Humidity: 10%~95%RH (non condense)									
Dimensions	430mm(L) x 290m	m(W) x 44mm(H), 19	" Rack-Mount / 1U							
Weight	3.2kg	3.9kg	4.6kg							

### System Diagram



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