



User's Manual EtherFast 10/100M Smart Switch

Model No.: SP616DB / SP624DB

http://www.micronet.info

Package Contents

Verify your package contains the following items:

- SP616DB/SP624DB 10/100 Mbps Smart Switch
- User's Manual
- Power Cord
- Rack Ears with Screws and Rubber Foots

Features

Micronet SP616DB/SP624DB has the following key features:

- Provide 16 (SP616DB) or 24 (SP624DB) RJ-45 ports of 10/100 Mbps, auto negotiation
- Provide one expansion slot for optional fiber optic module
- Provide one web-based console port
- Provide 2K (SP616DB)/10K (SP624DB) MAC address and 2M (SP616DB)/1.5M (SP624DB) buffer memory
- Provide 16 (SP616DB) or 24 (SP624DB) port-based VLAN groups to segment network
- Provide 2 trunking groups to aggregate bandwidth
- Provide auto-uplink function, no more cross-over cable
- Support store-and-forward mechanism
- Support non-blocking wire speed forwarding rate
- Suitable for rack-mount installation

Physical Description

Front Panel

í	B.W.			LNK/ACT	1.2	-4	6	8	10	12	14	14 SPEED		
	Micronet [.]	• TOM • TOOM • LIVE	♦ ACT										1007	
I	Paster and Easter Networks		LNK	ACT										
I													κ.	
I		POWER	0]	-
			P NEET										·	LN8Ç/ACT
	3P616D0 EtherPost 10/100H Senat Ivetch		CONS	our	1	3	6	7		11	12	15		

Figure 1: Front Panel of SP616DB



Figure 2: Front Panel of SP624DB

POWER

This LED comes on when the switch is properly connected to power and turned on.

TX/FX Push Button

The push button is located at the right side of port 16 (SP616DB) or port 24 (SP624DB). Release this button to use RJ-45 port 16 (SP616DB) or port 24 (SP624DB), and press this button to use the 100BASE-FX module.

IP RESET Push Button

Press the front panel IP RESET push button for around five seconds to reset the Switch back to default IP Address (192.168.1.10).

Port Status

The RJ-45 ports are numbered from 1 to 16 (SP616DB), or from 1 to 24 (SP624DB).

LEDs

Label		Status	Indication							
POWER		On	Power is feeding in.							
		Off	Power is switched off.							
			Improper connection.							
CONSOLE	LNK	On	A valid network connection. LNK stands for LINK.							
		Off	No connection.							
	ACT	Transmitting or receiving data. ACT stands for ACTIVITY.								
Off		Off	Neither connection nor activity.							
PORT	LNK/ACT	On	A valid network connection. LNK stands for LINK.							
		Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.							
		Off	Neither connection nor activity.							
	SPEED	On	A valid 100Mbps connection.							
		Off	A valid 10Mbps connection.							
FX	LNK	On	A valid network connection. LNK stands for LINK.							
		Off	No connection.							
	ACT	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.							
		Off	Neither transmitting nor receiving data.							

Installation

Preparing the Site

Select the site that meets the following requirements:

Characteristic	Requirement
Temperature	32 to 104°F (0 to 40°C)
Humidity	Maximum relative humidity of 90%, non-condensing
Condition	At least 1.8 meters (6 feet) to the nearest source of electromagnetic noise
Ventilation	Minimum 3 inches (0.25 feet) of clearance around the ventilation openings
Power Outlet	Within 1.8 meters (6 feet) to the switch

Table 2: SP616DB / SP624DB Operating Requirements

Settling the Switch

• Mounted to 19-inch standard rack

Locate the accessories provided in the product package. Use the rack-mount brackets and screws to install the switch into any EIA 19" standard rack.

Step 1: Attach the brackets to each side of the chassis.

Step 2: Apply the screws to each side and secure them tightly.

Step 3: Carefully position the switch into the rack.

Step 4: Align the brackets to the side holes on the rack and use rack screws to secure the chassis with the rack.

Step 5: Proceed to the "Connecting to Power" section.

Desktop or any flat surface

The switch can sit on desktop or any flat surface with adequate space and ventilation. If you want to place it onto a shelf, make sure the shelf can withstand the weight of the switch.

Step 1: Simply put the switch on the desired place.

Step 2: Ensure the switch receives good ventilation.

Step 3: Proceed to the "Connecting to Power" section.

Installing the Module (optional)

Consult the following illustrations for installation.



Figure 3: Removal of cover plate



Figure 4: Fiber module being installed

Step 1: Make sure the power is switched off. The module is not hot-swappable.
① It may cause electric shock or any possible damage to the switch if the power is not switched off.

- Step 2: Remove the module from the static-free container.
- Step 3: Unscrew the cover plate of the expansion slot.

(The slot for single-port module is located at the right side of the switch.) Step 4: Remove the plate.

(Keep it for future use in case you decide to remove this module later.)

- Step 5: Carefully slide the module into the slot, along the internal plastic guide rails.
- Step 6: Once it is fully slid in, snap in the module to make a proper connection.

Step 7: Fasten the module screws then.

Step 8: Finally, turn on the power.

Connecting to Power

Locate the provided AC power cord.

- Step 1: Connect the AC power cord to the receptacle at the back of the switch.
- Step 2: Attach the plug into a standard AC outlet with a voltage ranging from 100 to 240 VAC.
- Step 3: The power LED on the front panel will come on then.

Connecting to Network

Step 1: First, ensure the power of the switch (and end devices) is turned off.

① It may cause electric shock or any possible harm to you if the power is not switched off.

Step 2: Prepare cable with corresponding connectors for each type of port in use.

Step 3: Connect one end of the cable to the switch and the other end to a desired device.

Step 4: Once the connections between two end-devices are made successfully, turn on the power.

Now the switch is operational.

Switch Configuration

Setting UP Console Port Connection

SP616DB/SP624DB provides one RJ-45 console port and a web-based interface, allowing users to configure and manage the switch remotely from web browser.

1. Connect UTP/STP cable to SP616DB/SP624DB's console port.



Figure 5: Connect directly to PC

Figure 6: Connect to PC via another switch

 In the web browser, specify the default IP address of SP616DB/SP624DB (192.168.1.10). Default User Name: admin Default Password: (null)



Main Menu



System Change

The **System Change** parameters can be displayed by clicking the **System Change** button in the left sub-menu.

System Change							
Switch Name	24 Port Switch						
New Password							
Version	M1.13N						
Mac Address 00-60-b3-01-37-01							
ng Apply							
	System Change Gwitch Name New Password Version Mac Address						

Figure 9: System Change

• Switch Name: Type a switch name and replace the current switch name with a new one. (Please restart your Computer once the Switch Name is replaced and saved under "Save Configuration "by the new name).

Note: only "a-z ", "A-Z", "0-9", "under line" & "Space" can be acceptable, totally can not exceed 16 characters.

 Password: Enter a user-defined password and change the factory default password. Note: only "a-z ", "A-Z", "0-9", "under line" & "Space" can be acceptable, totally can not exceed 16 characters.

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• Apply: Click the **Apply** button and apply the new System settings.

IP Configuration

	IP Configuration	
		16
Configuration	IP Address	192.168.1.10
Connguration	Netmask	255.255.255.0
System Change	Default Gateway	192.168.1.254
IP Configuration	-	
Port	Apply	Retresh
VLAN		
Trunking		
Save Configuration		
Load Default		

Figure 10: IP Configuration

- Refresh: Click the **Refresh** button and refresh back to the last saved IP Configurations.
- IP Address, Netmask, Default Gateway: You can see and change the IP Address, Netmask, and Default Gateway of the Ethernet Switch.
- Apply: Click the **Apply** button and apply the new IP Configurations.

Port

	Port					
	Refresh On					
Configuration				-		
Contern Changes	Port Number	Туре	Link Status	Mode	Flow	Transmit/Receive
System Change	1	TX	Link Down	AUTO 💌	Enable ·	On 💌
IP Configuration	2	TX	Link Down	AUTO 💽	Enable •	On 💌
Port	3	[IX	Link Down		Enable •	On 💌
VIAN	4	TX	Link Down	AUTO V	Enable 💌	On 💌
	5	TX	Link Down	AUTO 💌	Enable 💌	On 💌
Trunking	6	TX	Link Down	AUTO 💌	Enable -	On 💌
Save Configuration	7	TX	Link Down	AUTO V	Enable -	On 💌
Load Default	0	TX	Link Down		Enable 💌	On 💌
	9	IX	Link Down	AUTO 💌	Enable 💌	On 💌
	10	TX	Link Down	AUTO 💽	Enable -	On 💌
	11	IX	Link Down	AUTO 💌	Enable •	On 💌
	12	TX	Link Down	AUTO V	Enable •	On 💌
	13	IX	Link Down	AUTO 💽	Enable •	On 💌
	14	TX	Link Down	AUTO 💌	Enable •	On 💌
	15	TX	Link Down	AUTO -	Enable -	On 💌
	16	TX	Link Down	AUTO V	Enable 💌	On 💌
		Figur	e 11: Por	rt		

- Refresh: Click the Refresh On or Refresh Off button to or not to refresh back to the last saved settings of the ports.
 - Note: it is recommended to change the **Refresh On** button to **Refresh Off** while you change the settings of the ports. The **Refresh On** will refresh the settings of the ports shown on the screen around every ten seconds.
- Mode: Choose AUTO, 10HD, 10FD, 100HD or 100FD for the ports.
- Flow Control: Choose **Enable** or **Disable** to enable or disable the flow control of the ports.
- Transmit / Receive: Choose **On** or **Off** to turn on or off transmit / receive of the ports.
- Apply: Click the **Apply** button and apply the new settings of the ports.

	VLAN																								
	Port	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Configuration	VLAN1	R	R	R	1	R	9	R	R	R	R	R	9	R	9	R	9	R	R	R	R	R	R	R	R
O estern Chones	VLAN2	П	F	П	F	П	F	F	П	Г	П		П	П	F	F	F	П	Г	П	F	П	П	П	F
system change	VLAN3	П		F	F	П	F	F	F	Г	F	П	Г	П	F	F	F	П	Г	П	F	F	П	F	F
IP Configuration	VLAN4	Г	П	П	Г	П	Г	F	П	Г	П	Г	П	П	F	F	F	П	П	П	П	П	П	П	П
Port	VLAN5	П		П	Π		Г	Г		П			П			Π		Π				П			П
VIAN	VLAN6	Г	П	П	П		Г		П	П			Γ.				Γ	П				П			
	VLAN7	П					П			П			Γ	П			Γ	П					Π		
Trunking	VLANB	Π				Γ												Π	Г			П			
Save Configuration	VLAN9						П											Π							
Load Default	VLAN10																								
	VLAN11		Г		Г	Γ	Г			Γ							Γ					П			
	VLAN12	Γ				Γ				Γ															
	VLAN13	Γ			Γ	Γ											Γ								
	VLAN14	Π		Γ	Γ		Г		Γ				Г				Ε					Е			
	VLAN15	Γ		Г	Γ		Г			Γ		Γ	Г	Γ			Γ					Г	Γ		
	VLAN16	Γ			Γ		Γ		Γ								Γ					Π			
					F	ig	ure	э 1	2:	V	′L/	٩N	1												

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- VLAN: Click and choose the ports to be added into the VLAN groups. Apply: Click the **Apply** button and apply the new settings of the VLAN groups. *Note: all Ports have to be selected to one of the VLAN Groups, those Port/Ports were not selected will be notified by the alarm message which shows "Non-Identify VLAN Group ".* •

Trunk SP616DB:

	Trunking
Configuration	Group 1 Select (Port 1-2) Disable Group 2 Select (Port 9-10) Disable
System Change	
IP Configuration	Apply
Port	
VLAN	
Trunking	
Save Configuration	
Load Default	

Figure 13: Trunk of SP616DB

- Disable: Click and choose the **Disable** to disable the Trunk Group 1 or Trunk Group 2.
- Trunk Group 1: Click and choose the **Port 1, 2** to be added into the Trunk Group 1.
- Trunk Group 2: Click and choose the **Port 9, 10** to be added into the Trunk Group 2.
- Apply: Click the **Apply** button and apply the new settings of the Trunk Groups.

SP624D:



- Trunk Group 1: Click and choose any four ports to be added into the Trunk Group 1.
- Trunk Group 2: Click and choose any four ports to be added into the Trunk Group 2.
- Apply: Click the **Apply** button and apply the new settings of the Trunk Groups. Note: each Trunk Group can not be selected more than four ports, the alarm message will show "Non-Identify Trunk Group", if it's exceeded.

Save Configuration

Configuration System Change IP Configuration Port VLAN Trunking Save Configuration Load Default	Historical Editorical Englanes (M) W Arti you sure (Cancel
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Figure 15: Save Configuration

- Click Save Configuration.
- Click the Ok or Cancel button to or not to save the configurations. Note: the Cancel button will discard any data you have changed since the last "Save" operation. Without clicking Ok button, the switch does not save any changes you may have made.

Load Default

Configuration System Change IP Configuration Port VLAN Trunking Save Configuration Load Default	Serveral Inference (system) Are you sure (C. Cancel
	Figure 16: Load Default

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- Click Load Default.
- Click the Ok or Cancel button to or not to load the default settings. Note: once the Ok button is selected, all last saved Port, VLAN, and Trunking setting will revert back to the default settings.

Specifications

IEEE standard	IEEE 802.3,10BaseT IEEE 802.3u,100BaseTX/FX
Port	SP616DB: 16 10/100 Mbps ports SP624DB: 24 10/100 Mbps ports
Speed	200 Mbps full-duplex 100 Mbps half-duplex
Dimension	440 × 207 × 44 mm rack-mount size
Weight	SP616DB: 1.94 kg SP624DB: 2.07 kg
Power Input	100 - 240 VAC, 50 - 60 Hz
Input Fuse	SP616DB: 3.3VDC, 2.5A SP624DB: 3.3VDC, 5A; 5V, 1A
Power Consumption	SP616DB: 8.25W Max. SP624DB: 21.5W Max.
Operating Temperature	32 to 104°F (0 to 40°C)
Storage Temperature	-13 to 158°F (-25° to 70°C)
Humidity	10 - 90%, non-condensing
Emission	FCC part 15 Class A, CE Mark

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