

# ReadyLINK

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*Quick Install Guide*

## Complex 24 Ports + 1 Expansion Slot Switch

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**SXP1224B 1A**

**SXP1224B 6A (RoHS-compliant)**

**Version 1.3**



networks@work



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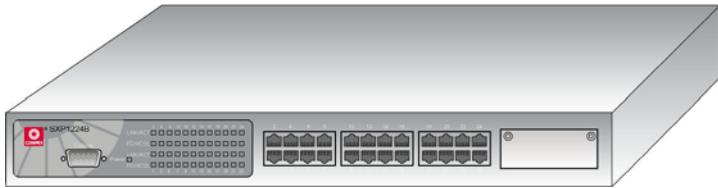
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# *Quick Install Guide*

## Complex 24 Ports + 1 Expansion Slot Switch SXP1224B

### 1. Introduction



**Figure 1.1**    **Complex SXP1224B**

The Complex SXP1224B is a 24-port Fast Ethernet switch with one expansion slot that can be connected with two 100/1000Mbps copper or fiber modules. Advanced features like port-based VLAN, port trunking and priority queuing are supported in SXP1224B and are configurable through console port. SXP1224B is an excellent choice for today's most demanding Ethernet-based switching applications in small and medium enterprises.

## 1.1. Packaging Content

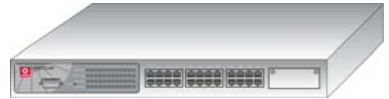
Thank you for purchasing CompeX SXP1224B. You will find the following items in the package:



1 x Power Cord



4 x Quick Install Guide  
with warranty card



1 x CompeX SXP1224B unit



1 x RS232 straight  
console cable



2 x brackets



6 x screws

## 1.2. Overall Procedures

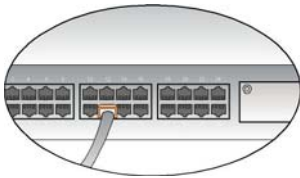
Here are some of the basic steps to guide you along:

1. **Hardware setup**  
Please refer to **Section 2 “Hardware Installation”**.
2. **Configure Hyper Terminal**  
Please refer to **Section 3 “Hyper Terminal Configuration”**.
3. **Configure your CompeX SXP1224B**  
Please refer to **Section 4 “Configure CompeX SXP1224B using Hyper Terminal”**.

## 2. Hardware Installation

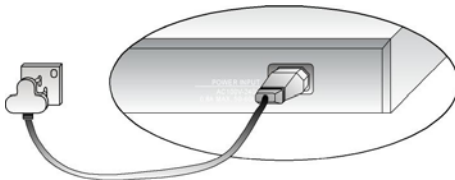
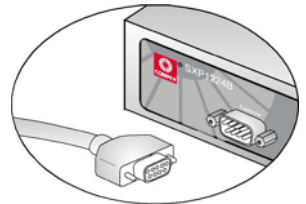
CompeX SXP1224B can be installed as a desktop unit or mounted on a 19-inch rack. Detailed installation process will be listed as shown. Please note that the actual product appearance may slightly differ depending on the hardware version.

### 2.1. Desktop installation



1. Insert one end of RJ45 network cable to any port of CompeX SXP1224B and the other end to your PC.

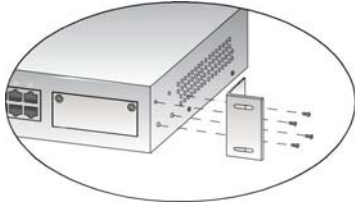
2. Insert one end of RS232 straight console cable to the console port of CompeX SXP1224B and the other end to your PC.



3. Insert the power cord to the socket located at the back of CompeX SXP1224B and the other end to the power point.

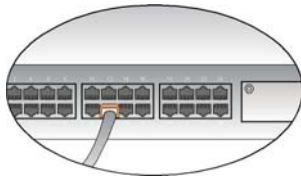
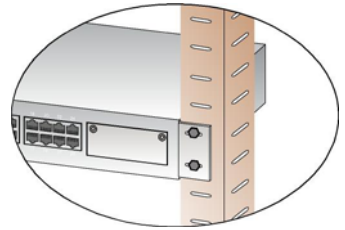
4. Check that the **Power** LED at the front panel of CompeX SXP1224B has lighted up. The unit is now ready to use.

## 2.2. Rack installation



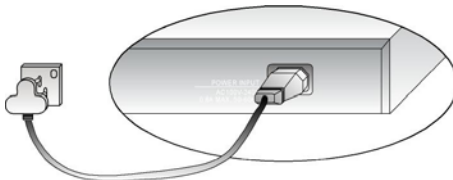
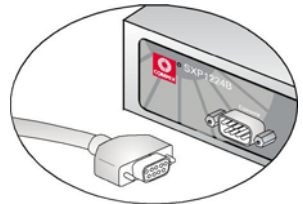
1. Secure brackets to the holes located at both sides of CompeX SXP1224B. Fasten it with the screws provided in the packaging.

2. Align the brackets holes with the rack holes and fasten both brackets to the rack.



3. Insert one end of RJ45 network cable to any port of CompeX SXP1224B and the other end to your PC.

4. Insert one end of RS232 straight console cable to the console port of CompeX SXP1224B and the other end to your PC.



5. Insert the power cord to the socket located at the back of CompeX SXP1224B and the other end to the power point.

6. Check that the **Power** LED at the front panel of CompeX SXP1224B has lighted up. The unit is now ready to use.



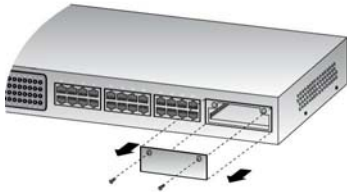


#### NOTE

Please allow at least 4 inches of clearance on the front and back of the switch for proper ventilation. This is especially important for enclosed rack installation.

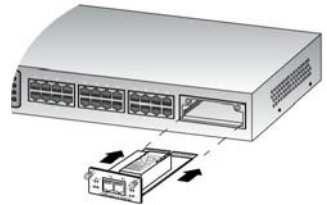
### 2.3. Module Installation

A series of optional expansion modules are available for CompeX SXP1224B. You need to install the modules before turning on CompeX SXP1224B. Please refer to “**Specifications**” for the types of optional modules to be used.



1. Power off CompeX SXP1224B, unscrew and remove the metal plate from the expansion slot.

2. Insert the module carefully into the expansion module window and push it along the rail until it is firmly inserted into the connector of the PCB board of CompeX SXP1224B. Tighten the screws on the module.



#### NOTE

The expansion module is sold separately. Please refer to [www.compeX.com.sg](http://www.compeX.com.sg) or [www.cpx.com](http://www.cpx.com) for more details.

To remove the expansion module, simply power off your CompeX SXP1224B, draw out the expansion module from the expansion slot and place back the metal plate to cover the slot.

## 2.4. Operating Systems Compatibilities for the usage of Keyboard Arrow Key

CompeX SXP1224B is specially designed with the support of two arrow key sets to manipulate the selection in the console interface.

The table below illustrates the types of operating systems using different types of function keys in your keyboard.

<b>Windows 95, 98, 98SE, XP, ME or 2000</b>				<b>Windows 2000 with SP 1</b>			
←	→	↑	↓	J	L	I	M
J	L	I	M				

If you are using Windows 2000 Hyper Terminal Program, ensure that you have installed Windows 2000 Service Pack 2 or higher. With Windows 2000 Service Pack 2, the arrow keys will function properly in the Hyper Terminal's VT100 emulation.

### 3. Hyper Terminal Configuration

By installing a terminal emulation program, such as Hyper Terminal, you can simply connect your PC to CompeX SXP1224B. Using a RS232 straight console cable, connect one end to a PC, and the other end to CompeX SXP1224B. You need to set your configuration as shown below.

1. Type the name in the space provided.

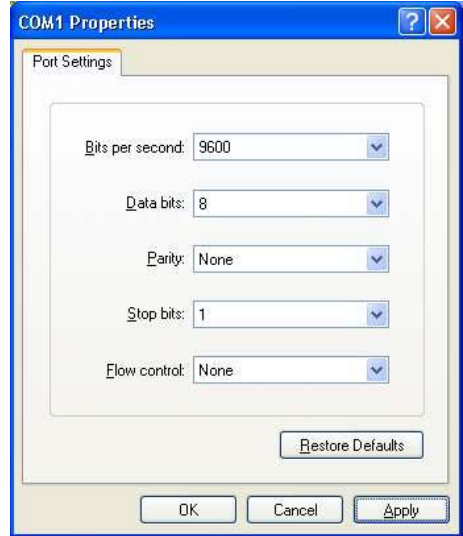


2. Choose the COM Port that you have selected from your PC.

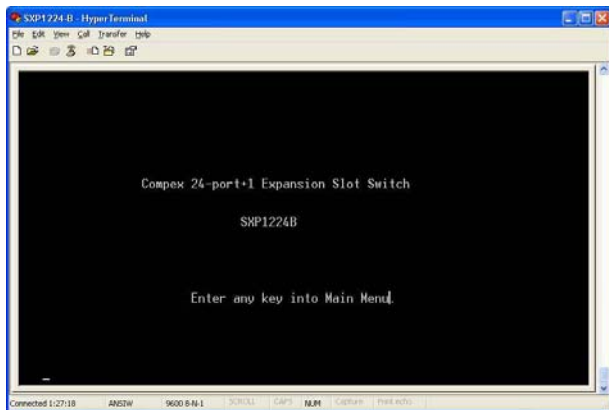


- Adjust the Port setting from the COM1 (depends on the console port you have used) Properties screen.

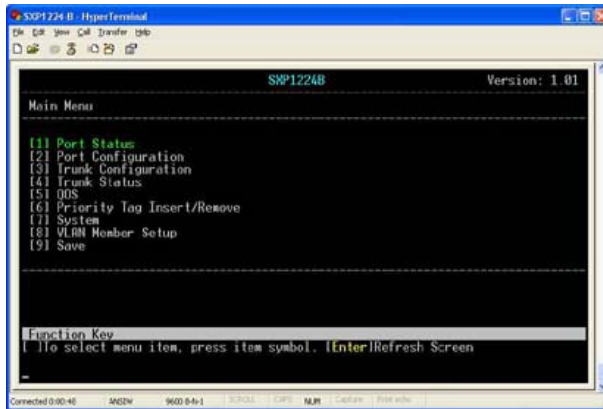
**Bits per seconds: 9600**  
**Data Bits: 8**  
**Parity: none**  
**Stop bits: 1**  
**Flow Control: none**



A Hyper Terminal screen will appear as shown below.



You can easily configure your Compex SXP1224B, such as setting the trunking ports, VLANs, etc. For details in configuring Compex SXP1224B, kindly refer to the **Section 4 “Configure SXP1224B using Hyper Terminal”**.



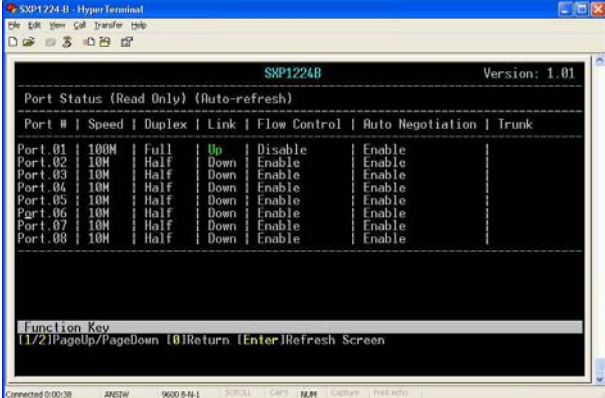
## 4. Configure Compex SXP1224B using Hyper Terminal

To start configuring your Compex SXP1224B, you need to first connect one end of the console cable to your PC and the other end to your switch. Configure your hyper terminal and log on to the main page to start configuring.

### 4.1. Port Status

This option allows you to view the connection speed (10M/100M), the duplex mode (Half/Full Duplex), flow control (enable/disable), auto negotiation (enable/disable), linking (Up/Down) and trunking status of all ports.

The screen will auto refresh in around 5 seconds' time.



```

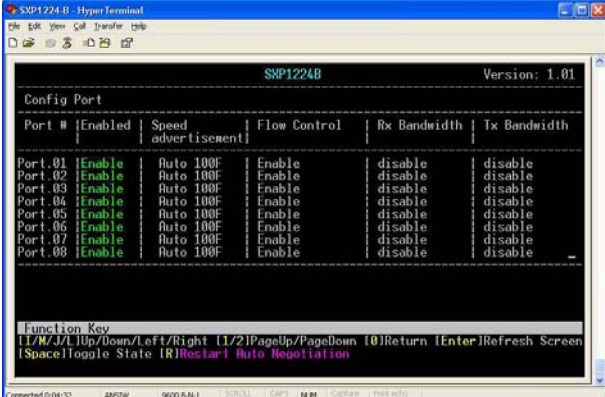
SXP1224B                                     Version: 1.01
-----
Port Status (Read Only) (Auto-refresh)
-----
Port # | Speed | Duplex | Link | Flow Control | Auto Negotiation | Trunk
-----
Port.01 | 100M | Full   | Up   | Disable      | Enable           |
Port.02 | 10M  | Half  | Down | Enable       | Enable           |
Port.03 | 10M  | Half  | Down | Enable       | Enable           |
Port.04 | 10M  | Half  | Down | Enable       | Enable           |
Port.05 | 10M  | Half  | Down | Enable       | Enable           |
Port.06 | 10M  | Half  | Down | Enable       | Enable           |
Port.07 | 10M  | Half  | Down | Enable       | Enable           |
Port.08 | 10M  | Half  | Down | Enable       | Enable           |
-----

Function Key
[1/2]PageUp/PageDown [0]Return [Enter]Refresh Screen
-----
Connected 0:00:38      AN25W      9600 B-N-L      SCROLL  CAPT  NUM  [Tab]  [F6]  [F7]

```

## 4.2. Port Configuration

This feature allows you to configure the speed, flow control, receiving and transmitting bandwidth of your CompeX SXP1224B.



```

SXP1224B                                     Version: 1.01
-----
Config Port
-----
Port # | Enabled | Speed advertisement | Flow Control | Rx Bandwidth | Tx Bandwidth
-----
Port.01 | Enable  | Auto 100F          | Enable       | disable      | disable
Port.02 | Enable  | Auto 100F          | Enable       | disable      | disable
Port.03 | Enable  | Auto 100F          | Enable       | disable      | disable
Port.04 | Enable  | Auto 100F          | Enable       | disable      | disable
Port.05 | Enable  | Auto 100F          | Enable       | disable      | disable
Port.06 | Enable  | Auto 100F          | Enable       | disable      | disable
Port.07 | Enable  | Auto 100F          | Enable       | disable      | disable
Port.08 | Enable  | Auto 100F          | Enable       | disable      | disable
-----

Function Key
[1/2]Up/Down/Left/Right [1/2]PageUp/PageDown [0]Return [Enter]Refresh Screen
[Space]Toggle State [R]Restart Auto Negotiation
-----
Connected 0:04:32      AN25W      9600 B-N-L      SCROLL  CAPT  NUM  [Tab]  [F6]  [F7]

```

### **Speed Advertisement:**

This option allows the port to work in either forced or auto mode. When CompeX SXP1224B is set to 100Mbps forced mode, auto-MDIX function will be disabled. Please note that when auto-MDIX is enabled, the respective port LED in the **100 FORCE** and **HALF FORCE** mode, will not light up.

Upon setting the speed to **Auto**, you will be able to use any types of Ethernet RJ45 cable for connecting to any devices since the auto-MDIX function has activated.

Options: Auto 100F, Force 100F, Auto 100H, Force 100H, Auto 10F, Force 10F, Auto 10H, Force 10H

### **Flow Control:**

This feature reports the flow control setting of the port. Enabling flow control function prevents the overflow of data transfer in the network.

### **Rx/Tx Bandwidth:**

This feature will control the bandwidth of the received/transmitted packets for all ports. Each port's bandwidth is configurable on both ingress and egress traffic independently. By default, this feature is set to **Disable** for all ports. This means that CompeX SXP1224B will follow the bandwidth of each individual port, either in 10Mbps or 100Mbps.

Please note that whenever the ingress or egress traffic bandwidth exceeds the configured threshold, the flow control will be triggered to limit the throughput.

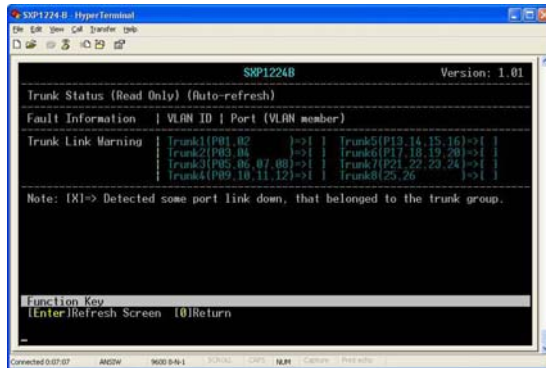
Options: Disable, 128Kbps, 256Kbps, 512Kbps, 1Mbps, 2Mbps, 4Mbps, 8Mbps





## 4.4. Trunk Status

This section displays the warning information that was detected during the trunk linking.



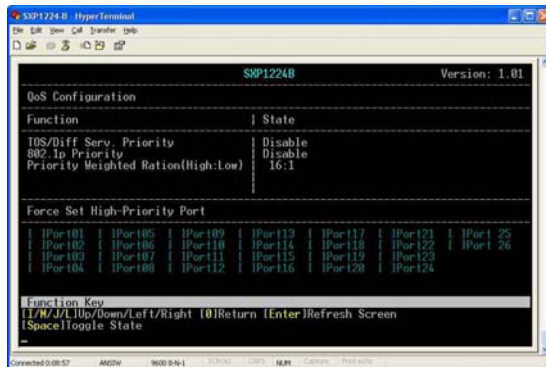
```

SRP1224B                                     Version: 1.01
-----
Trunk Status (Read Only) (Auto-refresh)
-----
Fault Information | VLAN ID | Port (VLAN member)
-----
Trunk Link Warning | Trunk1(P01_02) | =>1 | Trunk5(P13_14_15_16)>=>1 |
                  | Trunk2(P03_06) | =>1 | Trunk6(P17_18_19_20)>=>1 |
                  | Trunk3(P05_06_07_08)>=>1 | Trunk7(P21_22_23_24)>=>1 |
                  | Trunk4(P09_10_11_12)>=>1 | Trunk8(P25_26) | =>1 |
-----
Note: [X]> Detected some port link down, that belonged to the trunk group.

Function Key
[Enter]Refresh Screen [0]Return
  
```

## 4.5. Quality of Service

Quality of Service (QoS) refers to the capability of a network to provide a better service to selected ports in the switch. A port with priority set as High will have its transmitted packets serviced first at the receiving port.



```

SRP1224B                                     Version: 1.01
-----
QoS Configuration
-----
Function | State
-----
TOS/Diff Serv. Priority | Disable
802.1p Priority | Disable
Priority Weighted Ratio(High:Low) | 16:1
-----
Force Set High-Priority Port
-----
| | IPor101 | | IPor105 | | IPor109 | | IPor113 | | IPor117 | | IPor121 | | IPor125 |
| | IPor102 | | IPor106 | | IPor110 | | IPor114 | | IPor118 | | IPor122 | | IPor126 |
| | IPor103 | | IPor107 | | IPor111 | | IPor115 | | IPor119 | | IPor123 |
| | IPor104 | | IPor108 | | IPor112 | | IPor116 | | IPor120 | | IPor124 |
-----
Function Key
[1/M/J/L]Up/Down/Left/Right [0]Return [Enter]Refresh Screen
[Space]toggle State
  
```

Compex SXP1224B can recognize QoS priority information from the incoming packets and distribute packets in different queues for different service priority. It identifies the packets' priority based on:

**TOS/Diff Serv. Priority:**

This stands for Type of Services/Differentiated Services Priority. When TOS/DiffServ (DS) based priority is applied, Compex SXP1224B can recognize TCP/IP Differentiated Services Codepoint (DSCP) priority information from the DS-field defined on RFC2474. The DS field byte for IPv4 is the Type-of-Service (TOS) octet, and for IPv6, it is the Traffic-Class octet. The recommended DiffServ Codepoints is defined in RFC2597 to classify the traffic into different service classes.

**802.1p Priority:**

802.1p is an IEEE standard for providing quality of service (QoS) in Ethernet networks. It uses tagged packets and allows switches to transmit packets based on the tagged priority value.

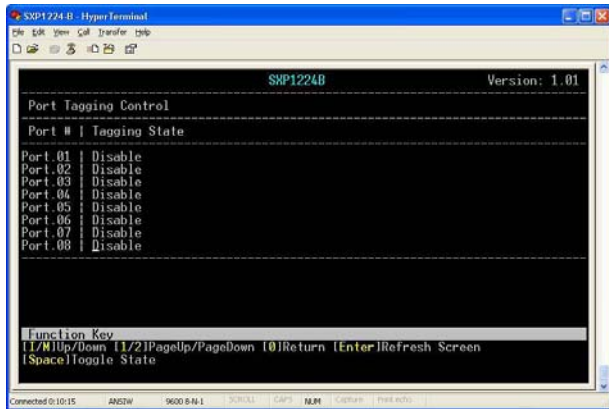
**Priority Weighted Ration (High:Low):**

Compex SXP1224B supports 2 levels of priority queues. The packet-based priority weighted ratio of high-priority and low-priority queuing can be set as 4:1, 8:1 or 16:1 or 1:0.

- ◆ 1:0: the switch will process all high priority packets.
- ◆ 4:1: the switch will process 4 high priority packet first before processing 1 low priority packet.
- ◆ 8:1: the switch will process 8 high priority packet first before processing the process 1 low priority packet.
- ◆ 16:1: the switch will process 16 high priority packet first before processing 1 low priority packet.

## 4.6. Port Tagging Control

This option allows you to determine the tagging status of incoming frames that need to be forwarded to their respective destinations.



### Disable

Complex SXP1224B will leave the frames as it is.

### Remove Tag

Complex SXP1224B will follow the instruction for the individual port and remove the tag from the incoming frame before forwarding it to its destination.

### Insert Tag (high-priority only)

Complex SXP1224B will follow the instruction for the individual port and insert the tag for incoming frames that are set to high priority before forwarding them to their destination.

### Insert Tag (all frame)

Complex SXP1224B will follow the instruction for the individual port and insert a tag to all incoming frames before forwarding them to their respective destinations.

Kindly select your option by toggling the space bar from your keyboard.

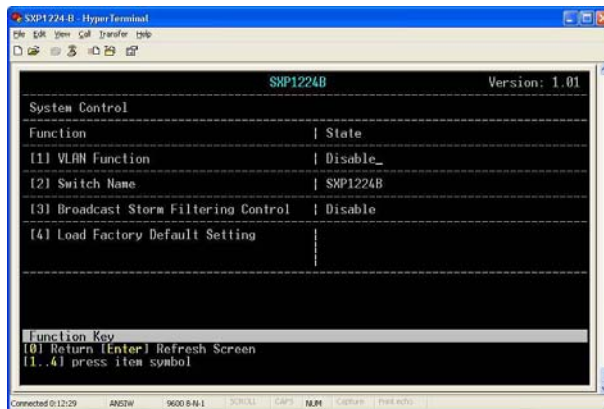


#### NOTE

This function can be enabled even if the VLAN function is not enabled.

## 4.7. System Control

This section allows you to change the name of your switch, to activate your VLAN and Broadcast Storm Filtering Control function, as well as to set your CompeX SXP1224B to its factory default.



#### For VLAN Function

Press **1** to toggle the options between *enable* and *disable*.

#### To change your switch's name

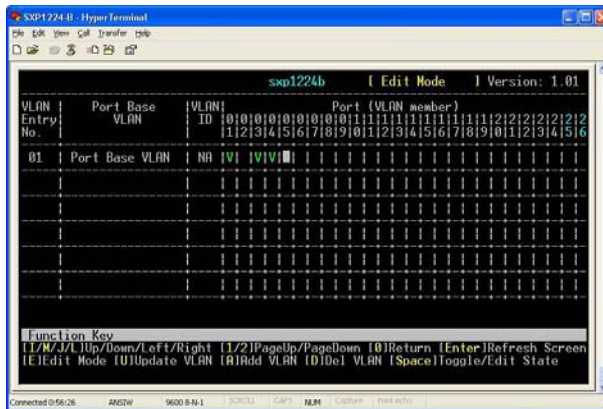
Press **2** and enter a name. Hit the **Enter** key from your keyboard to update the changes.



## Create a new VLAN

You need to set the configuration environment to **Edit** mode.

1. Hit on the letter **E** (indicates the environment is in edit mode) and then the letter **A** to add in a new VLAN entry.
2. To set your VLAN member/s, use the letter **L** in the keyboard to shift the cursor to your right.



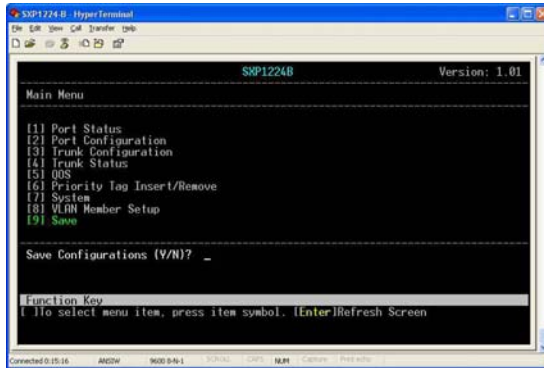
3. Toggle your spacebar to add the member in the VLAN group. **V** indicates that the member has been added to that particular VLAN group.
4. Once you have finished all VLAN configurations, you need to enter **U** from your keyboard to return to Display mode, then hit **0** to return to the previous menu.

## For Port-based VLAN

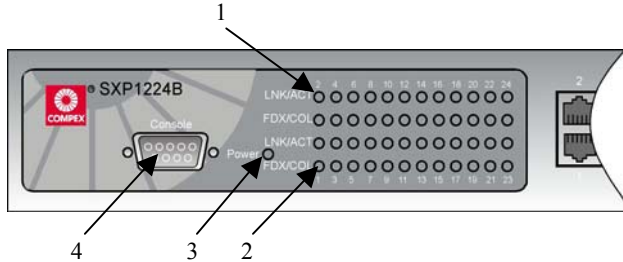
The classification of any incoming packet on each port is defined by the PVID. CompeX SXP1224B uses the PVID to search the VLAN table for a VLAN member.

## 4.9. Save your work

This option allows you to save the configuration that you have made. Remember to save the configuration whenever you make any changes, otherwise the new setting will not take effect. If you switch off your CompeX SXP1224B without having saved your configuration, the system will not keep the new settings when you switch it back again.

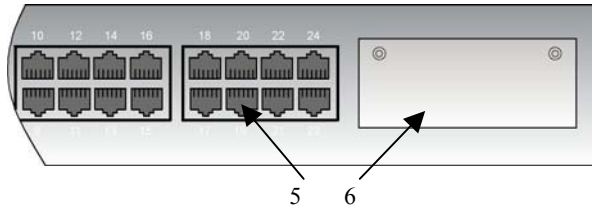


## Appendix I Panel Views and Descriptions

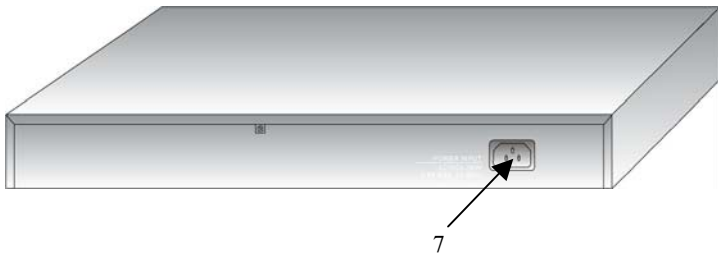


Features		Status and Indication	
1	<b>LNK/ACT LEDs</b>	Steady Green	The port is connected to the switch.
		Blinking Green	The port is transmitting or receiving data.
		Off	There is no connection established in the network.
2	<b>FDX/COL LEDs</b>	Steady Amber	The port is operating in Full Duplex mode.
		Off	The port is operating in Half Duplex mode.
		Blinking Amber	Collision occurs in the network segment of the respective port.
3	<b>Power LED</b>	Steady Green	Power is supplied to the switch.
		Off	No power is supplied to the switch.
4	<b>Console Port</b>	Connect a serial 9 Pin (DB9) RS232 straight socket here and link it to the COM Port of the PC you are using for monitoring the switch.	





	Features	Status and Indication
5	<b>24 RJ45 Management Ports</b>	Connect to web-browser via RJ45 UTP/STP network cable. The ports support: <ul style="list-style-type: none"> <li>• 10Base-T</li> <li>• 100Base-TX</li> <li>• Auto-negotiation</li> </ul>
6	<b>1 expansion slot for 2 uplinks</b>	Supports 1 modular slot for optional module <ul style="list-style-type: none"> <li>• 2 x 1000Base-T</li> <li>• 1 x 1000 Base-T/GBIC</li> <li>• 2 x 100MFX-SC</li> </ul>



	Features	Status and Indication
7	<b>Power Socket</b>	Flexible power input (range 100VAC ~ 240VAC, 50~60Hz)

## Appendix II Specifications

<b>Network Protocol, Standards and Electrical Emissions</b>	
<b>Industry Standards</b>	Complies with <ul style="list-style-type: none"> <li>• IEEE 802.3 10Base-T</li> <li>• IEEE 802.3u 100Base-TX</li> <li>• IEEE 802.3ab 1000Base-T</li> <li>• IEEE 802.3x Flow Control</li> <li>• IEEE 802.3p Priority queuing</li> <li>• IEEE 802.3ad Port Trunking</li> </ul>
<b>Safety Certifications</b>	<ul style="list-style-type: none"> <li>• CE Mark</li> <li>• FCC Class A</li> <li>• Gost</li> <li>• C-Tick</li> <li>• UL</li> </ul>
<b>Interface Options</b>	
<b>24 RJ45 Ports</b>	Supports 24 10/100Mbps ports (RJ-45, STP/UTP): Half/Full Duplex modes at 10Mbps and 100Mbps.
<b>Expansion Modules (1 expansion slot for 2 uplinks)</b>	Supports 1 modular slot for optional module <ul style="list-style-type: none"> <li>• 2 x 1000Base-T</li> <li>• 1 x 1000 Base-T/GBIC</li> <li>• 2 x 100MFX-SC</li> </ul>
<b>Network Cables</b>	<ul style="list-style-type: none"> <li>• 10Base-T: STP/UTP Cat 3 or 5</li> <li>• 100Base-TX: STP/UTP Cat 5</li> </ul>
<b>Network Management</b>	
<b>In Band and Out of Band</b>	Console Port

<b>Performance</b>	
<b>Transmission Method</b>	Store and Forward
<b>VLAN</b>	Up to 32 VLAN groups for port based
<b>Trunking</b>	8 trunking groups are available in CompeX SXP1224B
<b>Packet Forwarding Rate</b>	6.6Mpps
<b>MAC Table</b>	8K
<b>Switching Buffer</b>	2.5MB
<b>Backplane</b>	8.8 Gbps
<b>Physical and Environment</b>	
<b>Environmental Requirements</b>	Operating temperature : 0°C to 70°C Storage temperature : -55°C to 125°C Operating humidity : 10% to 90% RH RH = Relative Humidity
<b>Physical Dimension</b>	440mm x 200mm x 44mm (L x D x H)
<b>Maximum Current Rating</b>	0.5A Max
<b>AC Inputs</b>	Internal power supply is provided with voltage ratings of 100VAC to 240VAC, 50/60 Hz.



**Disclaimer:** **Compex, Inc.** provides this guide without warranty of any kind, either expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. **Compex, Inc.** may make improvements and/or changes to the product and/or specifications of the product described in this guide, without prior notice. **Compex, Inc.** will not be liable for any technical inaccuracies or typographical errors found in this guide. Changes are periodically made to the information contained herein and will be incorporated into later versions of the guide. The information contained is subject to change without prior notice.

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*Manual Revision by Daniel*

Manual Number: **M-0429-V1.3C** Version 1.3, December 2006

**FCC NOTICE:** This device has been tested and found to comply with the limits for a **Class A** digital device, pursuant to **Part 15 of the FCC Rules**. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the computer and receiver.
- Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution:** Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

**FCC Compliance Statement:** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**ICES 003 Statement**

This Class A digital apparatus complies with Canadian ICES-003

**DECLARATION OF CONFORMITY:** **Compex, Inc.** declares that the product:

**Product Name:** **Compex 24 Ports + 1 Expansion Slot Switch**

**Model No.:** **SXP1224B** conforms to the following Product Standards:

**Radiated Emission Standards:** EN55022A, FCC Part 15 Class A

**Conducted Emission Standards:** EN60555Pt2 conducted emission; EN55022A conducted emission, LVD 60950 standard, FCC Part 15 Class A

**Immunity Standards:** IEC 801-2; IEC 801-3; IEC 801-4

**Low Voltage Directive:** EN 60 950:1992+A1: 1993+A2: 1993+A3; 1995+A4; 1996+A11: 1997.

*Therefore, this product is in conformity with the following regional standards: **FCC Class A** — following the provisions of FCC Part 15 directive; **CE Mark** — following the provisions of the EC directive.*

**Manufacturer's Name:** **Compex, Inc.**

**Address:** 4051 E. La Palma, Unit A,  
Anaheim, CA 92807, USA

**European Contact & Technical Support**

ReadyLINK Networktechnology GmbH,  
Albert Einstein Straße 34/M21,  
63322 Rödermark, Germany




**Fax:** ++49 (60) 749-0668



## Technical Support Centers

Contact the technical support center that services your location.




### U.S.A., Canada, Latin America and South America

 Write	<b>Complex, Inc.</b> 4051 E. La Palma, Unit A Anaheim, CA 92807, USA
 Call	Tel: +1 (714) 630-7302 (08:00.- 17:00 Pacific time)
 Fax	Tel: +1 (800) 279-8891 (Ext. 122 Technical Support) Fax: +1 (714) 630-6521 BBS: +1 (714) 630-2570 (24-hour access)

### Europe

 Write	<b>ReadyLINK Networktechnology Gmbh</b> Albert Einstein Straße 34/M21 63322 Rödermark, Germany
 Call	Tel: +49 (0) 6074 - 98017 (08:00 – 17:00 local time)
 Fax	Fax: +49 (0) 6074 - 90668 BBS: +49 (0) 6074 - 93974 (24-hour access) Support Email: <a href="mailto:readylink@compex.com.sg">readylink@compex.com.sg</a>

### Asia, Australia, New Zealand, Middle East and the rest of the World

 Write	<b>Complex Systems Pte Ltd</b> 135, Joo Seng Road #08-01, PM Industrial Building Singapore 368363
 Call	Tel: (65) 6286-1805 (8 a.m.-5 p.m. local time)
 Fax	Tel: (65) 6286-2086 (Ext. 199 Technical Support) Fax: (65) 6283-8337 BBS: (65) 6282-8854 (24-hour access)

<b>Internet access/ Website</b>	E-mail: <a href="mailto:support@compex.com.sg">support@compex.com.sg</a> FTPsite: <a href="ftp.compex.com.sg">ftp.compex.com.sg</a> <a href="http://www.cpx.com">http://www.cpx.com</a> or <a href="http://www.compex.com.sg">http://www.compex.com.sg</a>
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