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User manual TRENDNET TE100-S24WS
User guide TRENDNET TE100-S24WS
Operating instructions TRENDNET TE100-S24WS
Instructions for use TRENDNET TE100-S24WS
Instruction manual TRENDNET TE100-S24WS

**24-Port 10/100Mbps
Fast Ethernet
Web Smart Switch**

User' s Guide



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Manual abstract:

VCCI Warning This is a product of VCCI Class A Compliance. UL Warning a) Elevated Operating Ambient Temperature- If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (Tmra). b) Reduced Air Flow- Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. c) Mechanical Loading- mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading. d) Circuit Overloading- Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern. e) Reliable Earthing- Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. , use of power strips). Ver. 1.10 TABLE OF CONTENT About This Guide..

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.. 33 ii ABOUT THIS GUIDE Congratulations on your purchase of the 24-Port 10/100Mbps Fast Ethernet Web Smart Switch. This device integrates 100Mbps Fast Ethernet and 10Mbps Ethernet network capabilities in a highly flexible package. Purpose This guide discusses how to install your 24-Port 10/100Mbps Fast Ethernet Web Smart Switch. Terms/Usage In this guide, the term "Switch" (first letter upper case) refers to your 24-Port 10/100Mbps Fast Ethernet Web Smart Switch, and "switch" (first letter lower case) refers to other Ethernet switches. 1 INTRODUCTION This chapter describes the features of the 24-Port 10/100Mbps Fast Ethernet Web Smart Switch and some background information about Ethernet/Fast Ethernet switching technology. Fast Ethernet Technology The growing importance of LANs and the increasing complexity of desktop computing applications are fueling the need for high performance networks. A number of high-speed LAN technologies have been proposed to provide greater bandwidth and improve client/server response times. Among them, 100BASE-T (Fast Ethernet) provides a non-disruptive, smooth evolution from the current 10BASE-T technology.

The non-disruptive and smooth evolution nature, and the dominating potential market base, virtually guarantees cost-effective and high performance Fast Ethernet solutions. 100Mbps Fast Ethernet is a standard specified by the IEEE 802.3 LAN committee. It is an extension of the 10Mbps Ethernet standard with the ability to transmit and receive data at 100Mbps, while maintaining the CSMA/CD Ethernet protocol. Since the 100Mbps Fast Ethernet is compatible with all other 10Mbps Ethernet environments, it provides a straightforward upgrade and takes advantage of the existing investment in hardware, software, and personnel training. 3 Switching Technology Another approach to pushing beyond the limits of Ethernet technology is the development of switching technology. A switch bridges Ethernet packets at the MAC address level of the Ethernet protocol transmitting among connected Ethernet or Fast Ethernet LAN segments. Switching is a cost-effective way of increasing the total network capacity available to users on a local area network. A switch increases capacity and decreases network loading by dividing a local area network into different segments, which don't compete with each other for network transmission capacity. The switch acts as a high-speed selective bridge between the individual segments.

The switch, without interfering with any other segments, automatically forwards traffic that needs to go from one segment to another. By doing this the total network capacity is multiplied, while still maintaining the same network cabling and adapter cards.

@@Combine the Switch with the provided screws Then, use screws provided with the equipment: When the FDX LED lights on, the fiber port is in full duplex mode. @@@@1. 2.

3. Insert the Utility CD in the CD-Rom Drive. From the Start menu on the Windows desktop, choose Run. @@Follow the on-screen instructions to install the utility. @@(Figure 6.

) 4. 5. 15 Figure 6. @@@@Double click or press the "Add to monitor list" button to select a device from the Discovery List to the Monitor List. 16 System word definitions in the Discovery List: 1111111111 MAC Address: Shows the device MAC Address. IP Address: Shows the current IP address of the device. Protocol version: Shows the version of the Utility protocol. Product Name: Shows the device product name. System Name: Shows the appointed device system name. Location: Shows where the device is located.

Trap IP: Shows the IP where the Trap to be sent. Subnet Mask: Shows the Subnet Mask set of the device. Gateway: Shows the Gateway set of the device. Monitor List All the Web Smart Device in the Monitor List can be monitored; you can also receive the trap and show the status of the device. System word definitions in the Monitor List: 1111111111 S: Shows the system symbol of the Web-Smart device, represent for device system is not alive. IP Address: Shows the current IP address of the device. MAC Address: Shows the device MAC Address. Protocol version: Shows the version of the Utility protocol. Product Name: Shows the device product name. System Name: Shows the appointed device system name.

Location: Shows where the device is located. Trap IP: Shows the IP where the Trap to be sent. Subnet Mask: Shows the Subnet Mask set of the device. Gateway: Shows the Gateway set of the device. 17 View Trap: The Trap function can receive the events that happen from the Web Management Switch in the Monitor List.

There is a light indicator behind the "View Trap" button, when the light indicates in green, it means that there is no trap transmitted, and else when it indicates in red, it means that there is new trap transmitted, and this is to remind us to view the trap.



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(Figure 7) Figure 7. When the "View Trap" button is clicked, a Trap Information window will pop out, it will show the trap information including the Symbol, Time, Device IP and the Event occurred. (Figure 8) The symbol " " represents the trap signal arise, this symbol will disappear after you review and click on the event record. Figure 8.

Note: In order to receive Trap information, switch has to be configured with Trap IP and Trap Events in Web browser, which are available in the Trap Setting Menu (see Page 33 for detail). Add Item: To add a device to the Monitor List manually, enter the IP Address of the device that you want to monitor. Delete Item: To delete the device in the Monitor List. 18 Device Setting You can set the device by using the function key in the Device Setting Dialog box.

Configuration Setting: In this Configuration Setting, you can set the IP Address, Subnet Mask, Gateway, Set Trap to (Trap IP Address), System name and Location. Select the device in the Discovery list or Monitor List and press this button, then the Configuration Setting window will pop out as Figure 9, after filling in the data that you want to change; you must fill in the password and press the "Set" to proceed the data changed immediately. Figure 9. Configuration Setting Password Change: You can use this Password Change when you need to change the password, fill in the password needed in the dialog box and press "Set" button to proceed the password change immediately. Figure 10. Password Change 19 Firmware Upgrade: When the device has a new function, there will be a new firmware to update the device, use this function to update.

Figure 11. Web Access: Double click the device in the Monitor List or select a device in the Monitor List and press this "Web Access" button to access the device in Web browser. Toolbar The toolbar in the Web Management Utility have four major tabs, includes File, View, Options and Help. In the "File TAB", there are Monitor Save, Monitor Save As, Monitor Load and Exit. Monitor Save: To record the setting of the Monitor List to the default, when you open the Web Management Utility next time, it will auto load the default recorded setting. Monitor Save As: To record the setting of the Monitor List in appointed filename and file path. Monitor Load: To manually load the setting file of the Monitor List. Exit: To exit the Web Management Utility. 20 In the "View TAB", there are view log and clear log function, this function will help you to show trap setting. View Log: To show the event of the Web Management Utility and the device.

Clear Log: to clear the log. In the "Option TAB", there are Refresh Time function, this function helps you to refresh the time of monitoring the device. Choose 15 secs, 30 secs, 1 min, 2 min and 5 min to select the time of monitoring. In the "Help TAB", there is About function, it will show out the version of the Web Management Utility. Configuring the Switch The 24-Port 10/100Mbps Fast Ethernet Web Smart Switch has a Web GUI interface for smart switch configuration.

The Switch can be configured through the Web Browser. A network administrator can manage, control and monitor the switch from the local LAN. This section indicates how to configure the Switch to enable its smart functions including: u Port Setting (Speed, duplex mode, flow control and QoS) u Virtual LAN Group setting (VLAN) u System IP address and password setting u Device status (System status, Port status, Port statistic and VLAN status) 21 Login Before you configure this device, note that when the Web Smart Switch is configured through an Ethernet connection, make sure the manager PC must be set on the same IP network. For example, when the default network address of the default IP address of the Web Smart Switch is 192.168.0.1, then the manager PC should be set at 192.168.0.x (where x is a number between 2 and 254), and the default subnet mask is 255.255.255.0. Open Internet Explorer 5.0 or above Web browser.

Enter IP address <http://192.168.0.1> (the factory-default IP address setting) to the address location. Figure 12. Or through the Web Management Utility, you do not need to remember the IP Address, select the device shown in the Monitor List of the Web Management Utility to settle the device on the Web Browser. When the following dialog page appears, enter the default password "admin" and press Login to enter the main configuration window. Figure 13. 22 After entering the password, the main page comes up; the screen will display the device status. Figure 14.

Device Status 23 Main Menu When the main page appears, find the Setup menu in the left side of the screen (Figure 15). Click on the setup item that you want to configure. There are nine options: Port Settings, VLAN Settings, Device Status, Statistic, System Settings, Trap Setting, Password Setting, Backup Setting and Reset Setting as shown in the Main Menu screen. Figure 15. Main Menu Configuring Setup Setting Find that there are two items in Setup Setting, including Port Settings and VLAN Settings, in Setup menu.

Port Settings In Port Settings menu (Figure 16), this page will show each port's status, press the ID parameter to set each port's Speed, Flow Control, QoS priority and Link Status. When you need to renew the posted information, press the "Refresh" button. 24 The Link Status in the screen will show the connection speed and duplex mode; else this dialog box will show down when the port is disconnected. Figure 16. Port Configuration To change the port setting, click on the ID parameter to enter to the selected port to configure its Speed/Disable, Flow control and QoS setting.

Figure 17. Speed/Disable: This setting has six modes -- 1 00M Full, 100M Half, 10M Full, 10M Half, Auto and Disable -- for speed or port disable selections. 25 Flow Control: This setting determines whether or not the Switch will be handling flow control. Set FlowCtrl to Enable for avoiding data transfer overflow. Or it sets to Disable; there is either no flow control or other hardware/software management. When the port is set to forced mode, then the flow control will automatically set to Disable. QoS: In some ports that need to have a high priority to manage the data transfer, QoS should be change. Set the port's QoS to high to determine the port will always transfer their data first. VLAN Settings (Virtual Local Area Network) Group individual ports into a small "Virtual" network of their own to be independent of the other ports. To add a VLAN group, press "Add Group" button, the new VLAN configuration window will pop out, you can fill in the description in order to describe this VLAN Group, check on the port to be a member to this VLAN Group, and press "Apply" button to execute the setting.

Figure 18. VLAN Group Settings Once you want to modify the VLAN Group, check on the ID parameter, the ID VLAN configuration window will pop out.



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26 Figure 19. VLAN Settings Device Status Click on the "Status" to present the device status on this screen, it will show the System Status, Port Status and VLAN Status. Press "Refresh" when you need to renew the posted information. @@@@The Login Timeout is to set the idle time-out for security issue, when there is no action when running the Web Smart Utility and the time is up, you must re-login to Web Smart Utility before you set the Utility. Fill up the IP Address, Subnet Mask and Gateway for the device. Figure 22. System Setting 28 Trap Setting The Trap Setting enables the device to monitor the Trap through the Web Management Utility, set the Trap IP Address of the manager where the trap to be sent. Figure 23.

Trap Setting u System Events: Monitoring the system's trap. Device Bootup: a trap when booting up the system. Illegal Login: a trap when there is a wrong password login, and it will record from where the IP was been login. u Fiber Port Events: Monitoring the Fiber port status. Link Up/Link Down: a trap when there is linking status happens in fiber port.

Abnormal* Receive Error: to send a trap when there are receive data error in fiber port. Abnormal* Transmit Error: to send a trap when there are transmit data error in fiber port. 29 u Copper Port Events: Monitoring the copper port status. Abnormal* Receive Error: to send a trap when there are receive data error in copper port. Abnormal* Transmit Error: to send a trap when there are transmit data error in copper port.

Abnormal*: 50 error packet count within 10 seconds. Set Password Password is the invaluable tool for the manager to secure Web Management Switch, use this function to change the password. If you forget the password, press the "Reset" button in the rear panel of the Switch, the current setting includes VLAN, Port Setting ... etc. will be lost and the Switch will restore to the default setting. Figure 24. Set Password Backup Setting The backup tools help you to backup the current setting of the Switch. Once you need to backup the setting, press the "Backup" button to save the setting.

To restore a current setting file to the device, you must specify the backup file and press "Restore" button to restore the setting of the recorded file. 30 Figure 25. Backup Setting Note: when restoring a recorded file, the current password will not be erased. Reset Setting The Factory Reset button helps you to reset the device back to the default setting from the factory. Be aware that the entire configuration will be reset, the IP address of the device will be set to default setting 192.168.0.1. Figure 26. Reset Setting Logout When press this function, the web configuration will go back to first Login page.

Figure 27. Logout 31 TECHNICAL SPECIFICATIONS General Standards IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3u 100BASE-FX Fast Ethernet Protocol Data Transfer Rate CSMA/CD Ethernet: 10Mbps (half duplex), 20Mbps (full-duplex) Fast Ethernet: 100Mbps (half duplex), 200Mbps (full- duplex) Topology Network Cables Star 10BASET: 2-pair UTP Cat. 3, 4, 5; up to 100m 100BASE-TX: 2-pair UTP Cat. 5; up to 100m Fiber module: 50/125 or 62.5/125µm multimode fiber with SC connector Number of Ports 24 × 10/100Mbps Auto-MDIX UTP ports 1 × expansion slot for optional 100BASE-FX fiber module Physical and Environmental AC inputs Power Consumption Temperature Humidity Dimensions EMI: Safety: 100-240V AC, 50-60 Hz internal universal power supply 14Watts (Max) Operating: 0° ~ 40° C, Storage: -10° ~ 70° C Operating: 10% ~ 90%, Storage: 5% ~ 90% 440 x140 x 44 mm (W x H x D) FCC Class A, CE Mark Class A, VCCI Class A cUL(UL 60950), CB(IEC60950) 33 Performance Transmits Method: RAM Buffer: Filtering Address Table: Packet Filtering/Forwarding Rate: MAC Address Learning: Store-and-forward 768K bytes per device 4K entries per device 10Mbps Ethernet: 14,880/pps 100Mbps Fast Ethernet: 148,800/pps Automatic update 34 .



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