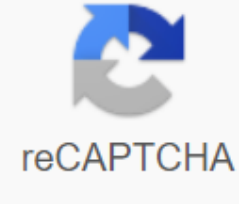




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## Procurve switch 3500yl-48g manual

Einige Word-Funktionen koennen at Google Docs nicht angezeigt werden und werden bei entferntDetails anzeigenLetzte Anderungen Anzeigen HP ProCurve 3500, 3500yl and 6200yl Switches Installation and start guide HP ProCurve 3500, 3500yl and 6200yl switches Installation and the beginning of the guide © Copyright 2005, 2008-2009 Hewlett-Packard Development Company, L.P. Information contained in the present, may be a change without notice. This document contains confidential information that is copyrighted. No part of this document can be photocopied, reproduced or translated into another language without the prior written consent of Hewlett-Packard. Publishing Number 5900-0230 June 2009 Applicable Products 3500-24 Switch J9470A 3500-48 Switch J9472A 3500-24-PoE Switch J9471A 3500-48-PoE Switch J Switch9 473A 3500yl-24G-PWR Intelligent Edge J8692A 3500yl-48G-PWR Intelligent Edge J8693A Switch 6200yl-24G mGBIC Premium Edge J8992A Switch 3500yl 2p 1pGbE X2 - 2p CX4 Module J8694A 620 Excess and External Power Supply J8696A Switch 3500yl/6200yl Fan Tray 5069-8598 Switch 3500yl/6200yl Rack Mounting Kit 5069-9 The 3500yl/6200yl 10K Rack Rail Kit 356578-B21 Switch zl and yl RPS/EPS Cable 5070-0102 Trademark Credits Windows® and MS Windows® are U.S.-registered Microsoft trademarks. THE DISCLAIMER OF RESPONSIBILITY TO HEWLETT-PACKARD DOES NOT PROVIDE ANY GUARANTEE REGARDING THIS MATERIAL, INCLUDING, BUT NOT LIMITED, IMPLIED GUARANTEES OF TRADE AND SUITABILITY FOR A SPECIFIC PURPOSE. Hewlett-Packard is not responsible for errors in this material or for accidental or consistent damages in connection with the provision, performance or use of this material. The only guarantees for HP products and services are outlined in express warranty statements accompanying such products and services. None of this should be construed as an additional guarantee. HP is not responsible for technical or editorial errors or omissions contained in this one. Hewlett-Packard is not responsible for the use or reliability of its software on hardware that is not provided by Hewlett-Packard. Guarantee See the customer support booklet/guarantee included in the product. A copy of the specific warranty conditions applicable to your Hewlett-Packard products and spare parts can be obtained from your HP sales and service office or authorized dealer. Safety Before installing and operating these products, please read the Installation Precautions in Chapter 2, Installing switch, as well as safety statements in Annex C. Safety and EMC Regulatory Statements. Company 8000 Foothills Boulevard, M/s 5552 Roseville, CA 95747-5552 Content 1 Introducing Switch in front of Switches..... 1-5 Network Network . . . . . 1- 8 LEDs . . . . . He was not - A - he said , he was a - A- - he - a - a - a - a . . . . . 1- 10 LED modes Select . . . . . Reset button 1-12 . . . . .

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The D-1 Index 1 Introducing the HP ProCurve 3500 switch, 3500yl and 6200yl switches are multiport switches that can be used to create high performance switches. These switches are store-and-forward devices offering low latency for high-speed networks. The 3500 and 3500yl switches also support excess power and power from Ethernet (PoE) technology. The 6200yl only supports excess power. HP ProCurve 3500-24 Switch (J9470A) HP ProCurve 3500-48 Switch (J9472A) HP ProCurve 3500-24-PoE Switch (J9471A) HP ProCurve 3500-24-PoE Switch (J9473A) HP ProCurve 3500yl-24G-PWR Switch (J8692A) ProCurve Switch Mdl EPS RPS Back Mode: Off 10 Mbps With PoE-Integrated 10/100/1000 Base Ports-Base-Base-T (1 - 24T) - Ports IEEE Auto MDI/MDI-X Double Personal Ports: 10/100/1000-T (T) or Mini-GBIC (M) Port Link 1 3 5 7 9 11 Link 1113 Mode 1113 15 17 19 21T 23T Link 21M Mode 23M 3500yl-24G Flash 100 Mbps mode of each J8692A PoE at y 1000 Mbps Status M) for Power PoE LED F Dx (Dx (U.S. T or Tmp Spd Mode) One Bug Fan PoE only test Usr Using Locator Reset Clear Console Auxiliary Link Port 2 Mode 4 6 8 10 12 Link 14 Mode 16 18 20 22T 24T Link 22M Mode 24M! HP ProCurve 3500yl-48G-PWR Switch (J8693A) ProCurve Switch Mdl EPS RPS Rear Spd Status: from 10 Mbps, Flash 100 Mbps, 1000 Mbps PoE-Integrated 10/100/1000Base-T Ports (1 - 48T) - IEEE Auto MDI/MDI-X 41 Double Personality Ports: 10/100/1000-T (T) or Mini-GBIC (M) Port 3500yl-48G Link 1 Mode 3 5 7 9 11 Link 13 Mode 15 19 19 21 23 Link 25 Mode 27 29 31 33 35 Link 3 Mode 3 9 43 45T 47T Link 45M Mode 47M J8692A PoE Every M Status Act) for Power PoE LED Fdx (T or Tmp Spd Mode - One Bug Fan PoE Only Test Usr Using Locator Reset Clear Link 2 Mode 4 6 8 8 10 12 Link 14 Mode 16 18 20 22 24 Link 26 Mode 28 30 32 34 36 Link 38 Link 48 Mode 48M Reset mode and clear port on the left select 10/100/1000Base-T RJ-45 or mini-GBIC. Switches 3500-24 and 3500-24-PoE have 20 automatic watch ports 10/100Base-TX RJ-45 and 4 two personal ports - either auto-feeling 10/100/1000-TFF or S transceiver. The 3500-48 and 3500-48-PoE switches have 44 automatic sensing 10/100Base-TX RJ-45 ports and 4 two personal ports- either auto-sensing 10/100/1000/TFF transceiver. Introducing the switch in each of the 3500yl-24G and 3500yl-48G switches, one slot is provided at the back of the device to support four ports (two CX4 fixed ports and two X2 transceiver ports) 10 gigabits per second Ethernet (10-GbE) mode. These products support additional connectivity, as shown in table A-1 on page 1-3. Table A-1. Optional Network Connectivity, Speeds and Technologies Transceiver Form-Factor and Connector Speed Technology Cabling1 SFP (mini-GBIC) X2 Connector Connector 100 Mbps 100-FX Fiber (multimode) LC 100-BX Fiber (single mode) LC 1000-T Copper (twisted-pair) RJ-45 1000-SX Fiber (multimode) LC 1 Gbps 1000-LX Fiber (single mode) LC 1000-BX Fiber (single mode) LC 10-Gig Copper (twinaxial) CX4 10-Gig SR Fiber (multimode) SC 10 Gbps3 10-Gig LRM Fiber (multimode) SC 10-Gig LR Fiber (single mode) SC 10-Gig ER Fiber (single mode) SC 1For supported transceivers, see www.procurve.com/faqs. O6a ProCurve 10-GbE 10-GbE and ProCurve Mini-GBICs and SFPs have links to the list of supported products (the first issue in the General Product Information category). 2The 1000Base-T mini-GBIC is only supported at 6200yl. 3The 10Gbps transceivers are supported by 3500yl and 6200yl switches only. They are not supported on 3500 switches. See the technical details of cables and technologies in the cable and technology information app. The 3500yl, 3500-24-PoE and 3500-48-PoE switches are designed to support Power over Ethernet (PoE) technology. Switches support standard 802.3af devices and some pre-standard PoE devices. You can look at frequently asked questions for the Switch model. This feature is the default and you have to submit a switch to disable it if you don't want to use it. (Refer to the management and configuration guide that is available on hp ProCurve's website www.procurve.com/manuals. (See page 5-1.) Two-person ports support either automatic 10/100/1000Base-T RJ45 or SFP (mini-GBIC). SFP ports do not support PoE. If any of the SFP ports are used, the corresponding RJ-45 port will not be supplied with POE power and will be disabled. For more information on PoE 3500yl and 3500 PoE, see 3500 and 3500yl switches that can be connected to HP ProCurve 620 Redundant and External Power Supply (RPS/EPS) and receive excess power from this unit. If the internal power supply in the switch fails, the RPS/EPS unit will immediately provide all the power needed to operate the switch. This includes power to run the switch and poe power. If the maximum PoE capacity is used in all 48 ports, 620 RPS/EPS is needed to ensure the full power of the second 24 ports, in which case there is no redundancy. The 6200yl switch can be connected to the HP ProCurve 620 Excess and External Power Supply (RPS/EPS) and receive excess power from this unit. If the internal power supply in the switch fails, the RPS/EPS unit immediately provides the power you need to operate the switch. 6200yl does not support the power of PoE. The 6200yl, 3500yl and 3500 switches are designed to be used primarily as a high-density wiring cabinet or desktop switch. These switches can directly connect computers, printers, and servers to ensure the dedicated bandwidth of these devices. By connecting the switch to hubs, other switches, or routers, they can be used to build a switched network infrastructure. In addition, the 3500yl switches offer full network management capabilities. This chapter describes 3500yl, 6200yl and 3500 switches, including: Front and rear switches function by introducing switch switches power, PoE, Temp, Fan, and test status of LEDs and Locator Switch PORT LEDs LedS Console Port Dual-Personality Ports 10/100Base-TX RJ-45 ports (10/100/1000-T or SFP) Reset and Clean Port LED mode select button buttons and LED indicator Figure 1-1. Before the HP ProCurve 3500-24 Power Switch, PoE, Tempo, Fan, and Test status LED malfunction, and Locator Switch Port LEDs 10/100Base-TX RJ-45 ports dual-personality ports (10/100/1000-T or SFP) Reset and clean port LED mode select buttons and LED lights on 3500-48 switch, console and support ports located on the rear. Figure 1-2. Before the HP ProCurve 3500-48 Switch Introducing the Switch Front Power Switch, PoE, Temp, Fan, and Test status OF LEDs malfunction, and Locator Switch Port LEDs Port Console PoE-Integrated 10/100Base-TX RJ-45 Double Identity Port Ports Ports (10/100/1000-T or SFP) Port LED mode to select and clear button buttons and clear-ed image 1-3. Before HP ProCurve 3500-24-PoE Power Switch, PoE, Temp, Fan, and test the status of LED malfunction, and Locator Switch port LEDs PoE-Integrated 10/100Base-TX RJ-45 Dual-personality ports (10/100/1000-T or SFP) reset and clean port LED mode select buttons and LED light on 3500-48-PoE switch, console and support ports located on the rear of the device. Figure 1-4. Front of the HP ProCurve 3500-48-PoE Switch Introducing the Switch Front of the Switches Power, PoE, Temp, Fan, and Fault, and Test Status LEDs Locator Auxiliary port Switch port LEDs and LED\* LEDs Module, EPS, and RPS, Status LEDs ProCurve Switch Mdl EPS RPS Status of the Back \*Spd mode: off = 10 Mbps PoE LED Fdx (T or Tmp Mode Spd\* one Fault Fan PoE only Test Usr Using Locator Reset Clear Console Auxiliary Port Link 2 Mode 4 6 8 10 12 Link 14 Mode 16 18 20 22T 24T Link 22M Mode 24M ! Консольный порт Двойной персональный порт Сброс и Очистить 10/100/1000Base-T RJ-45 (1000Base-T or Mini-GBIC) buttons Port LED mode select button and LED indicator Figure 1-5. Before the HP ProCurve 3500yl-24G power switch, PoE, Tempo, fan, and test status OF LEDs malfunction, and Locator Switch port LEDs module, EPS, and RPS, Status LEDs ProCurve Switch Mdl EPS RPS Status Back Spd Mode: from 10 Mbps, Flash 100 Mbps, at 1000 Mbps / with PoE-Integrated 10/100/1000Base-T Ports (1 - 48T) - Ports IEEE AutoDI/MDI-X 41 Double Ports: (T) or Mini-GBIC (M) Port 3500yl-48G Link 1 Mode 3 5 7 9 11 Link 13 Mode 15 1 7 19 21 23 Link 25 Mode 27 27 27 29 31 33 35 Link 37 Mode 39 43 45T 47T Link 45M Mode 47M J8692A PoE Every Status Act M) for Power PoE LED Fdx (T or Tmp Tmp Spd - One Bug Fan PoE Only Test Usr Using Locator Reset Net Link 2 Mode 4 6 8 10 12 Link 14 Mode 16 18 20 22 24 Link 26 Mode 28 30 32 34 36 Link 38 Link 48 Mode 48M Reset mode and clear port on the left select 10/100/1000Base-T RJ-45 button buttons and LED light Two-seat ports (1000Base-T or mini-GBIC) On the 3500yl-48G switch, console and support ports are located on the back of the device. Figure 1-6. Before the HP ProCurve 3500yl-48G Switch Introducing the switch front power switches, pace, fan, and test auxiliary port malfunctions, as well as the status of LEDs and LED locator switch LEDs module and RPS Status LEDs Power Locator Port LED mode select Mini-GBIC port buttons and indicator LEDs Figure 1-7. Before the HP ProCurve 6200yl-24G Switch Network Ports. All RJ-45 ports provide HP Auto MDIX features, which means you can use twisted pair direct or crossover cables to connect any network devices to the switch. The 3500 and 3500yl switches provide four two personal ports that support either the 10/1000/1000Base-T RJ-45 connector or the HP ProCurve SFP (mini-GBIC) for fiber optic connections. The RJ-45 connectors support the IEEE Auto MDI/MDI-X feature, which means you can use direct or crossover cables to connect any network device to the switch. Double personal port operation. The default RJ-45 connectors are on. If the mini-GBOK is installed in the slot, it is on and the associated RJ-45 connector is disabled and cannot be used. When the mini-GBIC is removed, the associated RJ-45 port automatically switches. The RJ-45 also provides PoE power until a mini-GBOK is installed. PoE power is switched off when the mini-GBIC is connected. Introducing switch front switches - Each of the 3500yl and 6200yl switches have one, 10 gigabit extension slot that can take a 4 x 10 gigabit transiver module. The modules provide the introduction of either copper or fiber optic media that meets the 10-Gigabit Ethernet standard, as well as double 10 gigabit copper or uplink ports. Only 3500yl and 6200yl switches support the yl module. The yl module provides four ports: two 10-GbE CX4 fixed copper switch ports - two 10-GbE flexible multimedia slots that support different transceivers. For more information on supported transceivers, visit hp ProCurve Switch yl Module. 3500 switches do not support the module slot. Introducing the switch in front of the switch table 1-2. The SWITCH LEDs switch state The meaning of THE LEDs Power on the switch gets power. (green) Shutdown NOT getting food. Fault in normal condition; indicates that there are no fault conditions on the switch. (orange) flashing malfunction occurred on the switch, one of the switch ports, the module in the back of the orange orange Or a fan. The status LED for the fault component will flash simultaneously. On briefly after the switch is powered on or discarded, at the beginning of the switch's own side test. If this LED works for a long time, the switch has collided with a fatal equipment failure or has failed to cope with the self-flow. For more information, see Chapter 4 Troubleshooting. The locator is reserved for future development of the (blue) Test Off Normal Operational State; The switch does not pass self-testing. (green) On the self-propelled switch and initialization in the process after switching was power cyclical or reset. The switch does not work until this LED is switched off. Self Test LED also comes for a short time when you're a hot mini-GBIC swap in the switch; The mini-GBIC is self-checking when it is hot changed. The switch component failed to do self-testing. The STATE LED for this component, such as the RJ-45 port, and the SWITCH's LED malfunction will blink simultaneously. The link to the port LEDs indicates that port LEDs display information about the links: (Green - if the PORT's LED is on, the port is on and receives a link from Link and Connected Device. mode) - if the PORT's LED is off, the port has no active network cable connected, or doesn't get a link beat or enough light. Otherwise, the port may be disabled through the Switch console, web browser interface, or ProCurve Manager. If the port's LED flashes (orange) at the same time as the Fault LED, the corresponding port has failed the test itself. Mode LED mode is controlled by the LED mode selection button, and the current setting is indicated by the LEDs of the LED light next to the button. Click to get out of view mode in another. The default view is Activity (Act). The LED mode law indicates that port LEDs display information about network activity. The (green) Fdx indicates that the port LEDs are illuminated for ports in Full Duplex mode. Off points to 1/2 of the duplex. Introducing the Switch Front of the Switch State Meaning LEDs Introducing Spd, indicates that port LEDs display the connection speed with which each port works: if the port's LED is off, the port is running at 10 Mbps, the port is running at 1000 Mbps. If the LED mode is turned off, the port does not provide PoE power. If the Link LED is in the port is enabled for PoE. If the Link LED is off, the port is off for PoE. If the LINK LED flashes, the port has an error or the port is denied electricity due to Power. Usr Reserved for future development of Mdl On Expansion module connected to slot extension and works properly (Blink Orange Expansion Module In the expansion slot, but experienced a status malfunction, the Off Expansion module is not connected to the green/orange slot extension (this does not apply to 3500 switches.) status of RPS when normal. RPS is connected and working properly. The RPS may be powering (green/block orange) Blink orange RPS connected, but has experienced a malfunction. Off RPS is not connected or turned on. EPS status on connectivity and energy generation. (Green/Blink Orange External Power connected but experienced a malfunction or disabled. orange) The switch is not connected to the EPS. (EPS does not apply to 3500-24 non-PoE or 3500-48 non-PoE switches.) Fan status is at normal work, all the fans are fine. (Green/Blink One of the unit's fans failed. (Green/Off should only be turned off during the download process. Blink If any port has an internal hardware glitch orange Blink if any port is denied the power of POE or detect an external PD malfunction Orange Temperature on the switch temperature is normal. (Green/Blink Over Temperature State Has Been Discovered. Orange) Orange Introducing a switch before the switch switch state meaning LEDs auxiliary reserved for future development (green) - flashing behavior is a cycle off once every 1.6 seconds, roughly. - Blinking is a cycle to turn on/off once every 0.5 seconds, approximately. The LED mode Select button and LED indicator The work of the LED mode is controlled by the LED mode selection button, and the current setting is indicated by the LED lights next to the button. Click to get out of view mode in another. Расширение Модуль светодиодные светодиоды порта ссылка и режим ProCurve переключатель Mdl EPS RPS Статус задней Spd режим: от 10 Мбит / с PoE-Интегрированные 10/100/1000Base-T Порты (1 1 Режим 3 5 7 9 11 3500yl-2 Вспышка 4G - 100 Мбит/с Ссылка J8692A PoE на й 1000 Мбит/с Статус Закона Мощность PoE Светодиодный Fdx Тмп Режим Spd' Локатор Сброс Ясной Консоли Вспомогательная Ссылка Порт 2 Режим 4 6 8 10 12 Светодиодный режим выберите кнопку и индикатор светодиодов Рисунок 1-8. Индикатор светодиоды на HP ProCurve 3500yl-24G переключатель Представляя переключатель фронт коммутаторов Порт светодиоды расширения модуля светодиодов и режим ProCurve переключатель Mdl EPS RPS Статус задней Spd режиме: от 10 Мбит /с, вспышка 100 Мбит/с, на 1000 Мбит/с PoE-Интегрированный 10/100/1000Base-T P 3500yl-48C Ссылка 1 Режим 3 5 7 9 11 Ссылка 13 Режим 15 17 19 21 23 J8692A PoE Статус Задан Мощность PoE Светодиодные Fdx Тмп Режим Spd - Ошибка Вентилятор PoE Usr Locator Reset Clear Link 2 Mode 4 6 8 10 12 Link 14 Mode 16 18 20 22 24 LED mode select button and LED indicator Figure 1-9.

Indicator LEDs on HP ProCurve 3500yl-48G Switch Extension LED Module Power Fault Locator LED mode select Port LEDs Link button and and LEDs and Figure 1-10 mode. Indicator LEDs on the HP ProCurve 6200yl-24G Switch Each port has LED links. If it burns, the port has a link. If the Link LED flashes, the port fails to take the test. LEDs malfunction and self-testing will flash simultaneously. If the Activity (Act) LED is on fire, each port LED displays activity information for the associated port - it flickers as network traffic is received and transmitted through the port. If the Full Duplex (FDx) LED is on fire, the port LEDs are illuminated for those ports that operate in a full duplex. If the Speed (Spd) LED is lit, the port LEDs behave as follows to indicate the connection speed for the port: Off 10 Mbps blinks 100 Mbps (blinking behavior repeats in/off cycle once every 0.5 seconds.) At 1000 Mbps, Usr Mode LED is reserved for future development. Introducing switch Front of the Switches If the PoE LED is on fire, Link and Mode LEDs indicate PoE status. LED links: On PoE is included on this port. PoE is disabled in this port. Slow blinking Internal PoE malfunction in this port. or was denied power. Fast blinking This port is devoid of PoE power or has an external load malfunction. LED mode: On th PoE the power comes on this port. Off PoE is not delivered to this port. Reset button This button is used to reset the switch while it is powered. This action clears any temporary error conditions that may have occurred and performs self-testing switches. It's also used to restore the default switch configuration. See the Clear Button section, restore the factory default configuration. Clean button This button is used for these purposes: Delete passwords - When you click on yourself for at least one second, the button removes any passwords accessing the switch console that you may have configured. Use this feature if you mis password and need access to the console. This button is designed for your convenience, but its presence means that if you are concerned about the safety of the switch configuration and operation, you should make sure that the switch is installed in a safe place, such as a locked wiring cabinet. Restoring the default default configuration - When you press the reset button in a particular template, any configuration changes you may have made through the Switch console, web browser interface, and SNMP management are removed, and the plant configuration is restored by default to the switch. For a specific method of restoring the default configuration of the plant see Introducing the Switch Front Switch Switch Module extension LEDs Extension LEDs module refer to LEDs specific to the module These LEDs are located on the physical extension of the bulkhead module. These LEDs can only be viewed in the back of the 3500yl-48G product at the very extension slot module. These LEDs are duplicated on the front of the 3500yl24G and 6200yl-24G switches. The 3500-24/48 PoE and 3500-24/48 non-PoE switches do not have an LED expansion module. Table 1-3. The Extension Module LEDs Name Color Mode Description Module LEDs for module Green on the expansion module connected to the expansion slot and works correctly (Mdl) Power Off Expansion module has been turned off off, and the map can be removed from the box if necessary. The Orange On Expansion module is connected to the expansion slot, but the experienced (Mdl) malfunction of the LED extension module for the Port Link Green Na indicates that port LEDs display information about the link: - if the port IS on, the port is turned on and receive a link indication from the connected device. Off if the LED port is off, the port has no active network cable plugged in, or doesn't get a link beat or enough light. Otherwise, the port may be disabled through the Switch console, web browser flashing interface, or ProCurve Manager. If the port's LED flashes at the same time as the LED malfunction, the port will not cope with the self-testing. Act Green On indicates that port LEDs display network activity information. The extension module LEDs work in communication and activity modes. FDx and Spd modes don't matter for 10-GbE ports on the extension module. C u t i o n Requires the switch to be turned off before inserting or extracting the extension module. Introducing the Switch Back Switch Back Switch RPS Input Port AC Power Connector Figure 1-11. The back of the HP ProCurve 3500-24 Switch RPS Input Port AC console connector is a port support port and LED pattern 1-12. The back of the HP ProCurve 3500-48 Switch Introducing the Switch Back Switch EPS Input port RPS Input port AC power connector Figure 1-13. The back of the HP ProCurve 3500-24-PoE Switch EPS Input Port RPS Port Port Auxiliary Port and LED AC Power Connector Figure 1-14. The back of the HP ProCurve 3500-48-PoE Switch EPS Input Port Serial No. SG12345678 System MAC 0001e7 Address 123456 CAUTION: MULTIPLE POWER SOURCES disable all AC power cords, as well as EPS and RPS cables, to completely remove energy from the unit. 12V System Power (RPS) Entry PoE 50V PoE (EPS) Entry Connect ProCurve 620 EPS Only Line: 50/60 Hz. 100-127 V 10 A 200-240 v e 5 RPS Entry Port AC Power Connector yl module slot Figure 1-15. The back of the HP ProCurve 3500yl-24G switch introducing the switch back switch. EPS Entrance Port Serial No SG12345678 CAUTION: MULTIPLE POWER SOURCES MAC 0001e7 disables all AC power cords, as well as EPS and RPS cables, to completely remove energy from the unit. Address 123456 Console 12V Power System System Admission poE 50V PoE (EPS) Entry line: 50/60 Hz. The Connect ProCurve 620 EPS auxiliary port is only 100-127 VV 10 A 200-240 v e 5 yl module console Port Auxiliary port and LED RPS Entrance Port AC Power Connector Figure 1-16. The back of the HP ProCurve 3500yl-48G switch. Do not use the serial number SG12345678 CAUTION: MULTIPLE POWER SOURCES System MAC 0001e7 disables all AC power cords, as well as EPS and RPS cables, to completely remove energy from the unit. Address 123456 12V System Power (RPS) Entry line: 50/60 Hz. 100-127 v e 10 A 200-240 V 5 A RPS Input Port AC Power connector Figure 1-17. The back of the HP ProCurve 6200yl-24G Switch yl Module Slot Only 3500yl and 6200yl switches support the yl module. The yl module provides 4 ports: two 10-GbE CX4 fixed copper ports 2 10-GbE flexible multimedia slots that support a number of different transceivers. For more information on supported transovers, visit hp ProCurve Switch yl Module. 3500 switches do not support the module slot. Introducing the RPS Switch Back Switch and EPS Input Port 3500, 3500yl and 6200yl switches support connectivity to excess power. The ProCurve 620 Excess and External Power Supply (RPS/EPS) is an accessory for these switches. RPS/EPS provides excess and additional PoE power for the backup power switch in the switch in the event of a loss of AC or PoE power. Or, if the maximum PoE capacity is used at all 48 ports, 620 RPS/EPS will need to provide full capacity for the second 24 ports, in which case, there would be redundancy. The Port This port console is used to connect the console to the switch using a serial cable supplied with the switch. This relationship is described under 10. Connect the console to the switch (optional) on page 20 in Chapter 2 Of the Switch Installation. The console can be a PC or workstation operated by the VT-100 terminal emulator or VT-100 terminal. The console port is located on the front of 3500-24, 3500yl-24G and 6200yl-24G switches, and on the back of 3500-48 and 3500yl-48G switches. Power Connector 3500, 3500yl and 6200yl switches do not have a power switch; they feed when connected to an active AC power source. These switches automatically adapt to any voltage between 100-240 volts and either 50 or 60 Hz. No voltage range settings are required. Introducing Switch Function Features 3500, 3500yl and 6200yl switches include: 3500yl have 24 or 48 auto-sensing 10/100/1000Base-T RJ-45 ports. 3500 have 20 or 44 automatic sensing 10/100Base-T RJ-45 ports. Four two-person ports - either automatic transceivers 10/100/1000Base-T RJ-45, or SFP transceivers can be used for each port. The 6200yl provides 24 mini-GBIC ports. One module slot is provided at the back of the yl switches to on A number of transivers to provide connectivity to other switch boxes, 10 Gig Hub or any Ethernet compatible uplink. The auxiliary port is reserved for future development. The switches can be connected to the HP ProCurve RPS/EPS and receive excess power from this device. If the internal power supply in the switch fails, the RPS/EPS unit will immediately provide all the energy needed to operate the switch. Power over Ethernet (PoE) Operations-3500-24-PoE, 3500-48-PoE and 3500yl IEEE switches 802.af compatible and provide up to 15.4 W per port to power IP phones, wireless hotspots, webcams and more. For more information, see Connect and play online - all ports are on - just connect network cables to active network devices and your switch network works. Auto MDI/MDI-X at all ports 10/100 and 10/100/1000 twisted pair, which means that all connections can be made with straight cables twisted pair. Cross cables are not required, although they will also work. Each port's contact is automatically adjustable for the attached device: if the switch detects that another switch or hub is connected to the port, it adjusts the port as MDI; if the switch detects that a device with the end of the node is connected to the port, it adjusts the port as MDI-X. Automatic study of network addresses in the 8000 forwarding table of each switch (with a customizable aging address value). The full duplex operation for ports 10/100 and 10/100/1000 RJ-45 is automatically agreed upon when connected to other auto-negotiation devices - mini-GBOC ports always operate in full duplex. Easy Switch control across multiple interfaces available: Switch function rollout and console interface is a complete, easy-to-use interface of the VT-100 terminal, which is particularly good for controlling the switch out of range or for Telnet access to the switch. The web browser interface is an easy-to-use built-in graphical interface that can be accessed from regular web browsers. HP ProCurve Manager is an SNMP graphics network, a control tool that can be used to manage the entire network. Switch This product is switched on with your new switch. Support the Spanning Tree protocol to eliminate network cycles. Support up to 2048 IEEE 802.1l-compatible VLANs, so you can divide the attached end nodes into logical groups that fit your business needs. Support for many of the extended features to improve network performance - see the Management and Configuration Guide on the HP ProCurve www.procurve.com/manuals website. Details on page 5-1. Download new Switch software for product or bug fix. Support for IEEE 802.3af and pre-standard standard Устройств. Представляя переключатель функции Представляя переключатель 2 Установка переключателя HP ProCurve 3500, 3500yl и 6200yl переключатели приходят с аксессуаром комплект, который включает в себя скобки для монтажа переключателя в стандартной 19-дюймовой telco стойку, в шкафу оборудования, и с резиновыми ногами, которые могут быть прикреплены так переключатель может быть надежно расположено на горизонтальной поверхности. Кронштейны предназначены для установки переключателя в различных местах и ориентациях. Для других вариантов монтажа свяжитесь с вашим местным реселлером сети ProCurve autho или представителем HP ProCurve. В этой главе показано, как установить переключатель. C u t i o n Если переключатель должен быть погружен в стойку, то уверен использовать только стойку HP 10K. Установить переключатель с использованием железнодорожного комплекта, HP ProCurve 1U RK MT SWITCH 10K ALL, часть номер 356578-B21 и комплект полки AB469A, HP rx 16/26 Factory Rack- Mount Shelf Kit. Оба комплекта должны быть использованы. В противном случае вы аннулируют гарантию. Included Parts The HP ProCurve 3500, 3500yl and 6200yl switches have the following components shipped with them: ■ HP ProCurve 3500, 3500yl and 6200yl switches Quick Setup Guide ■ Read Me First ■ Customer Support/Warranty booklet ■ Console cable ■ Safety and Regulatory booklet Installing the Switch Included Parts ■Accessory kit (5069-5705) for the 3500, 3500yl and 6200yl switches two mounting brackets eight 8-mm M4 screws to attach the mounting brackets to the switch four 5/8-inch number 12-24 screws to attach the switch to a rack four rubber feet ■Power cord, one of the following 3500yl and 3500-24-PoE 3500-24 and 6200yl and 3500-48- 3500-48 PoE Australia/New Zealand 8121-0857 8121-0857 8121-0287 China 8121-1034 8121-1034 8121-0829 Continental Europe 8120-5336 8120-5336 8121-0823 Denmark 8120-5340 8120-5340 8121-0826 Japan 8120-5342 8120-5342 8120-4753 Switzerland 8120-5339 8120-5339 8121-0827 United Kingdom/Hong Kong/Singapore 8120-5334 8120-5334 8121-0824 United States/Canada/Mexico 8121-0973 8121-0973 8121-0822 South Africa and India 8120-5341 8120-5341 8120-5341 Argentina 8120-8375 8120-8375 8120-8375 Бразилия 8121-0671 8121-0671 8121-0671 Таиланд 8121-0671 8121-0671 8121-0673 Чили 8120-8389 8120-8389 8120-8389 Тайвань 8121-0965 8121-0965 8121-0965 Израиль 8121-100 9 8121-1009 8121-1035 J a p a n P o w e r S o r d W a r n n g Пожалуйста, используйте шнур питания, поставляемый с вашим продуктом. Этот шнур питания не должен использоваться с другими продуктами. Установка процедур установки коммутатора Процедуры Резюме 1. Подготовка места установки (стр. 2-5). Убедитесь, что физическая анвирон-мент правильно подготовлена, в том числе наличие правильной сетевой кабели готовы подключиться к коммутатору и имеющие соответствующее место для коммутатора. Смотрите страницу 2-4 для некоторых мер Installation. 2. Installing or removing the yl module (optional page 2-5). 3. Installing or deleting a transiver (optional) (page (optional) If you have a yl module installed, you can now install one or two transivers. 4. Installing or removing a mini-HiBOK (page 2-7 if desired). The switch has four slots to install the mini-HiBOK. Depending on where you will mount the switch, it may be easier to install mini-GBICs first. Mini-GBICs can 5. Switch Check Switch passes self-test (page 2-9). Connect the switch to the installation or removal while the switch is on. power source and note that the LEDs on the front of the switch indicate the correct operation of the switch. When the self-check is complete, turn off the switch. 6. Mountain Switch (p. 2-11). The switch can be installed in a 19-inch telco rack, in a hardware cabinet, or on a horizontal surface. 7. Connect the switch to the power source (p. 2-13). Once the switch has been installed, connect it to a nearby main power source. 8. Connecting network cables (p. 2-14). Using appropriate network cables, connect network devices to switch ports. 9. Connect 620 RPS/EPS (optional page 2-16). You might want to use a 620 RPS/EPS with a switch. To do this, you need to connect an external power source with RPS or EPS cables delivered using 620 RPS/EPS. 10. Connect the console to the switch (page 2-20 if desired). You might want to reconfigure the switch, such as setting up an IP address so that it can be controlled using a web browser, from the SNMP network control station, or through a Telnet session. Configuration changes can be easily made with the cable console on, to connect your PC to the switch console port. At this point, the switch is fully installed. See the rest of this chapter if you need more information about any of these installation steps. Installing switch-installer Installation procedures W A R N N G C u t i o n s Follow these precautions when installing 3500, 3500yl or 6200yl switches. The rack or cupboard must be properly protected to prevent it from unstable and/or falling. Devices installed in a rack or closet should be installed as low as possible, with the heaviest devices at the bottom and gradually lighter devices installed above. Neither the right side nor the left side of the switch can be placed downwards. (That is, the right or left side of the device facing the front.) If the switch needs to be sent to the rack, be sure to use only the HP 10K rack. Both kits must be used. Otherwise, you will revoke the warranty. Make sure that the power supply schemes are properly grounded, and then power cord supplied with a switch to connect it to the power source. If the installation requires a different power cord than the one that comes with the switch and power supply, make sure the cord is adequate size for the current switch requirements. Also, don't forget to forget a power cord displaying a safety agency sign that sets the rules for power cords in your country. Mark your guarantee that the power cord can be used safely with the switch and power. When you install a switch, the AC socket should be next to the switch and should be easily accessible in the event of a switch being turned off. Make sure the switch doesn't overload power, wiring, and flow protection. To determine if power chains can overload, mix the ratings of the amps of all devices installed in the same pattern as the switch, and compare the total number with the chain's rating limit. Maximum amp scores are usually printed on devices near AC power connectors. Do not install a switch in an environment where the ambient operating temperature may exceed 55 degrees Celsius (131 degrees Fahrenheit)1. Airflow on the sides and back of the switch is not limited. 1. If you place any of the 3500, 3500yl or 6200yl switches with the X2 transceiver installed, the operating ambient temperature should not exceed 40°C (104°F). See the transceiver specifications in hp ProCurve Switch yl Module Installation Guide. Installing Switch 1 installation procedures. Preparing the infrastructure of the installation site's cables - Make sure the cable infrastructure meets the necessary network specifications. For more information, visit App B Cable information and technologies. Installation location - Before installing the switch, plan its location and orientation in relation to other devices and equipment: Leave at least 7.6 cm (3 inches) of space for twisted steam and fiber optic cables at the front of the switch. Leave at least 3.8 cm (1 1/2 inches) of power cord space at the back of the switch. Leave at least 7.6 cm (3 inches) to cool on the sides of the switch, unless the switch is installed in the open EIA/TIA rack. 2.Installation or removal of the yl module (optional) N o t e Hot replacement modules is not supported. If the module is installed or removed with the switch on, there is a reset. Insert or remove the module during the scheduled outage with the switch turned off. HP ProCurve 3500-24, 3500-48, 3500-24-PoE and 3500-48-PoE do not support the rear interface. 1. Remove the lid of the plate. 2. Insert the alignment module with the guides in the slot. See page 2-6 Installation of the yl module. 3. Once the contacts are engaged, use the extractor handles to fully fit the module. Installing the procedures for installing switch 4. Tighten the screws in captivity. For more information, check out the yl Module installation guide. Line the edges of the board with a 2-1 guide. yl module C t i o n For proper cooling and reduction of electromagnetic emissions, ensure the slot cover is installed on any unused slot. N N e Hot replacement of transvers is supported. You can install or remove the trans-ceiver with the switch on, the reset will not happen. You have to discolour-nect network cables from transceivers before hot replacing them. a. Slide the transiver until it stops.1 Figure 2-2. Installation of a fiber-optic transiver. Transceiver.

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