Cisco catalyst 9500 hardware installation guide

Depending on the switch model, five fan units are available. The playkey must always have more than one operating fan. The key can work with four operating fans and one non-functional fan, but the failed fan must be replaced as soon as possible to avoid service interruptiondue due to a second fan error. Figure 1- The 1 fan unit for Catalyst 9500 switch models 1 fan assembly arms 3 LED fan 2 fan 4 fan keep the control set of these guidelines when removing or installing the fan unit: do not force the fan unit into the slot. This can damage the pins on the key if they are not aligned with the module. The fan unit partially connected only to the key can disable the system process. The key supports the quick switch of the fan unit. You can remove and replace the module without interrupting the normal switch. Only trained and qualified staff should be allowed to install, replace or service this equipment. 1030 ProcedureStep 1 pinch handle detects the fan unit release, and the unit slide is out. Alert fan unit must be replaced within 5 minutes to avoid overheating switch. Step 2 Install the fan unit in the fan slot, push firmly into the slot, apply pressure to the end of the unit, not extraction handles. When inserted correctly, the fan unit is cleared with the rear switchboard. When the fan is working, the LED is green in the upper left corner of the fan. Warning does not reach a vacant slot when installing or removing a module. Exposed circuits are a threat to energy. Statement 206 Figure 2- Emissions 2 install fan unit If you contact Cisco Technical Assistance regarding the fan unit, you need to know the serial number of the fan unit. See the following illustration to find the serial number. Figure 3- Emissions 100-11 Serial fan unit number all 10/100/1000 ports using standard RJ-45 connectors and Ethernet pins. Figure 1- The 1 10/100/1000 Port Pinouts Figure 2. LC dual-connector cable Figure 3. Simple LC cable connector Figure 4. Copper SFP UNIT LC connector switch two console ports: a mini USB 5-pin B port on the front panel and a RJ-45 console port on the rear panel. Figure 5- Emissions 100-10 USB Mini-Type B Port uses a USB cable port type A to 5-pin mini-type B. A small USB USB type B cable is not provided. You can request a set of extensions (part 800-33434) that contains this cable. Figure 6- Emissions 100-11 USB Type A-to-USB 5-pin mini-Type B cable uses the RJ-45 console port 8-pin RJ-45 connection. The Supplied RJ-45-to-DB-9 adapter cable is used to connect the switch controller port to the console computer. You need to provide a DTE 25-RJ-to-DB-25 female adapter if you want to connect the switch port to the terminal. For cable specifications, see the following notes: Each port must match the wavelength specifications on the other end of the cable, and must not exceed the specified cable length. Copper 1000BASE-T SFP Unit Use a standard four-twisted pair, class 5 cable in lengths up to 328 feet (100 meters). Figure 7- Emissions of 100-10 four twisted pair directly through cable diagram 8. Four twisted semi-pair across the 9 schematic figure cable. The two twisted the pair directly through the 10 schematic figure cable. Two twisted pair crossover cable diagram to select a crossover cable, compare the ends of the units of the cable. Press the cable that ends side by side, with the tab at the back. The wire attached to the pin on the outside of the left component must be of a different color than the wire attached to the pin inside the right components. Figure 11 - Emissions select crossover cable uses the RS-232 controller port connector RJ-45 8 tip. Use the RJ-45-to-DB-9 adapter cable to connect the switch port to a computer and controller. You need to provide a 25-RJ-to-DB-25 female adapter to connect the switch port to the terminal. Table 1- Emissions 1000 signal port controller with DB-9 adapter RTS 8 CTS DTR 6 DSR TxD 2 RxD GND 5 GND GND 5 GND RxD 3 TxD DSR 4 DTR CTS 7 RTS Table 2. Signal port controller with DB-25 RTS adapter 5 CTS DTR 6 DSR TxD 3 RxD GND 7 GND GND 7 GND 7 GND RxD 2 TxD DSR 20 DTR CTS 4 RTS to set up the initial switch, set ip switch address, fill on information, see start-switch guide on Cisco.com. This chapter contains these topics: The switch installation can be divided into a series of tasks, which are described in the following table. Description of the task of unpacking the switch remove the switch from the packing material. Note: Save packing materials for later use if you need to move the chassis. Install the switch to install the key. Connect the structure to the system floor structure and attach a ground wire to the system from the building floor (ground) to the ground system point on the structure. The requested power supply unit is installed using the switch pre-installed in the switch. If requested separately, install the power supply. Install a network module to install network modules on network module slots. Install a fan installing fan units in fan unit slots. Connecting the structure and units to the network must connect the different ports on the chassis to the network. This process can only involve attaching a network interface cable to the port, or it can involve installing a transmitter and receiver of some kind in the port and then connecting the network interface cable to the transceiver. The power supply can be turned on after the network cables are complete and make sure the system floor is connected. The system runs a range of built-in diagnostics. Warning class 1 laser product. The 1008 warning this unit is intended for installation in restricted access areas. The restricted access area can only be accessed through the use of a special tool, lock and key, or other means of security. Statement 1017 warning this unit may have more than one Supply connection. All connections must be removed to deactivate the unit. Statement 1028 warning only training should be allowed for qualified staff to install, replace or service this equipment. Warning Statement 1030 to prevent personal injury or damage to the structure, never try to lift or tilt the structure using the knobs on the units (such as power supply, fans or cards); these types of handles are not designed to support the weight of the unit. Statement 1032 warning of dangerous voltage or energy is present on the rear plane when the system works. Be careful when processing. Statement 1034 Warning this product requires short circuit (overcurrent) protection, to be provided as part of the building installation. Install only in accordance with national and local wiring regulations. Warning 1045 When the unit is installed or replaced, the ground connection must always be made first and then finally disconnected. Statement 1046 Warning installation of equipment must comply with local and national electrical codes. Statement 1074 warning invisible lasers may emit fiberors or cutting conductors. Do not stare at the beams or view directly with optical instruments. Statement 1051 the charging box contains a form of the switch you ordered and other components needed for installation. Some ingredients are optional, as requested. Figure 1- The 1-plug delivered in the charging box of Cisco Catalyst 9500 Keychain 1 Cisco Catalyst 9500 Series Switch with optional grid module1 (power supply and fan units do not appear) 8 two M4.0 × 20mm Philips Pan Head Screws 2 product documents and compliance document 9 ground lou and two bolts 3 two 19-inch mounting brackets 10 disposable ESD belt 4 cable manual 11 AC power wire 5 four number - 12 pan head screws 12 (optional) RJ-45 unit Control cable1 6 four number 10 pan head screws 13 (optional) USB cable unit1 7 eight number - 8 Philips flat-head screws - Figure 2. Plug-in delivery in the charging box of Cisco Catalyst 9500 series high performance keys 1 Cisco Catalyst 9500 series high performance switch with optional network module1 (power supply and fan units do not show) 8 two M4.0 × 20mm Philips Pan Head 2 Product screws documents and compliance document 9 ground lug and two screws 3 two 19-inch mounting arches 10 ESD disposable belt 4 cable manual cable 11 AC power wire 5 four number 12 pan head screws 12 (optional) RJ-45 The cable console1 6 four number - 10 pan head screws 13 (optional) USB cable unit1 7 twelve m4.0 × 6mm Philips flat-head screws - note note do not ignore the shipping container when unscrewing the key. Flatten the charging cartons and store them with pallet. You will need these containers if you need to transport or ship the switch in the future. Check the contents of the accessories toolkit. Check that you have received all the equipment listed, which must include: grounding lug and available ESD belt. The equipment you have requested, such as console cables, transceiver or special connectors. Empty covers for power source outlets are installed on the chassis. This section describes how a system floor is connected to a switch. System-based alarm facilities using ac-only third-section AC floor significantly increase the risk of equipment problems and interpret data from those facilities that use both the AC third-section floor and the properly installed system floor. The ground system provides additional EMI shielding and grounding requirements for low voltage supply (DC-DC transformers) on modules. The following grounding instructions for the structure must be observed: the ground system connection must be installed with any other power ground connections you make. System ground connection is required if FXS units are installed or if this equipment is installed in a U.S. or European central office. Both the ground system connection and the ground connection of the power provider must be connected to the ground. System ground connection is required if FXS units are installed or if this equipment is installed in a U.S. or European central office. When using DC input power sources, the system must be installed (ground before attaching dc power cables to PEM DC. Power down the structure before connecting the system floor. The wires. Note The system floor acts as the primary safety floor of the structure equipped with DC input power supply materials. The DC-powered power supply for this chassis does not contain separate ground. To connect the floor of the system, you need the following tools and materials: ground loop - when using the double-hole loop connector provided with the system, the ground wire must be 6 AWG only. Otherwise, you must use a closed loop connector - a supported loop for the AWG 8-14 wire. Grounding screws - two M4 × 8 mm (metric) head screws. Provided as part of the accessories toolkit. Basic wiring — Not provided as part of the accessories kit. The size of the grounding wires should be in accordance with local and national installation requirements. For U.S. facilities, AC power supply systems require a copper connector of 14 AWG. 8-14 AWG wiring is recommended commercially available. Dc power supply systems with 930W power supply unit require 12 AWG wires and 1600W power supply unit require8 AWG wiring. The length of the bases wiring depends on the proximity of the switch to appropriate foundation facilities. #1 Phillips Screwdriver. The crimping tool for wrinkled grounding wire to the grounding lug. Wire stripping tool Insulation of grounding wires. To create a floor of the structure, a base cable from the grounding lug of the structure must be attached to the holder. Figure 3- Emissions 100-11 connecting ground step 1 system use wire stripping tool to remove approximately 0.75 inches (19 mm) of cover from the end of the laying wire. Step 2 insert the stripped end of the wire foundations at the open end of the loop foundations. Step 3 Try the ground wire in the ground lug barrel. Check that the ground wire is securely connected to the ground loop. Step 4 Place the grounding wires on the grounding panel, and make sure there is a solid metal connection. Step 5 secure the grounding lug to the chassis with two M4 screws. Make sure that the ground lug and floor wires will not interfere with other switches or rack equipment. Step 6 Prepare the other end of the grounding wire with loop lug, securing it to the shelf with the screw. To install nebs, use the four rack load set (#2). The depth of the rack, measured between the front strips of the composition and the rear-mounted strips, must be between 25.14 inches and 35.84 inches. Be sure to read rcsi information before installing the key. Installation in non-pregnant racks requires a 19-inch bracket set that is not included with the key. Warning to prevent bodily injury when installing or servicing this unit in a rack, special precautions must be taken to ensure that the system remains stable. The following instructions are provided to ensure your safety: this unit should be installed at the bottom of the rack if the only unit is on the shelf. When this unit is mounted in a partially filled rack, load the rack from the bottom up with the largest component at the bottom of the rack. If the rack is equipped with stabilizers, install the stabilizers before they are installed or maintained in the rack. Statement 1006 Figure 4- Emissions 160 1999 Mounting Carrier Brackets. This number shows standard 19-inch brackets and additional additional brackets optional. You can request optional brackets from a Cisco sales representative. 1 19 inches brackets 3 23 inches 2 extended rails and brackets for four-point installation, includes 19-inch brackets. - Use four philips flat-head screws to attach the long side of the arch to each side of the switch for the front or rear mounting positions. Figure 5- Emissions 100-10 attach a 19-inch mounting holder in brackets Figure 6. Attach a 23-inch mounting holder in brackets figure 7. Front, center and rear mounting positions of mount editing brackets 1 step 1 use Philips machine screws to attach brackets and extended rail to switch. Figure 8- Emissions attach a step 2 rail extension using the black Phillips screw machine to attach the cable guide to the left or right arch. Figure 9 - Emissions 100-10 attach cable manual 1 19 inch arc 3 manual cable 2 Philips machine screws 4 cable manual Step 3 Figure 10. Installation switch in the 1-philips screw machine rack, black 3 front mounting position 2 manual cable 4 number-12 or number-10 Philips screws switch configuration machine. For more information, see the switch setting theme. Connect to the front panel ports. Ports.