



Release Notes:

Version K.11.33 Software

for the ProCurve Series 3500yl, 6200yl, and 5400zl Switches

The K.11.3x software supports these switches:

- ProCurve Switch 3500yl-24G-PWR (J8692A) and 3500yl-48G-PWR (J8693A)
- ProCurve Switch 6200yl-24G-mGBIC (J8992A)
- ProCurve Switch 5406zl (J8697A), 5412zl (J8698A), and 5406zl-48G (J8699A)

These release notes include information on the following:

- Downloading switch software and documentation from the Web ([page 1](#))
- Clarification of operating details for certain software features ([page 8](#))
- A listing of software enhancements in this release ([page 8](#))
- A listing of software fixes included in releases K.11.11 through K.11.3x ([page 9](#))

Related Publications

For the latest version of any of the publications listed below, visit the ProCurve Networking Web site at <http://www.procurve.com>. Click on **Technical support**, then **Product manuals**.

- Management and Configuration Guide*
- Advanced Traffic Management Guide*
- Access Security Guide*

*Covers the ProCurve Series 3500yl, Series 6200yl, Series 5400zl switches.

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Applicable Products

ProCurve Switch 3500yl-24G-PWR Intelligent Edge (J8692A)	
ProCurve Switch 3500yl-48G-PWR Intelligent Edge (J8693A)	
ProCurve Switch 6200yl-24G-mGBIC (J8992A)	(J8992A)
ProCurve Switch 5406zl (J8697A)	(J8697A)
ProCurve Switch 5412zl (J8698A)	(J8698A)
ProCurve Switch 5406zl-48G (J8699A)	(J8699A)

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SSH on ProCurve Switches is based on the OpenSSH software toolkit. This product includes software developed by the OpenSSH Project for use in the OpenSSH Toolkit. For more information on OpenSSH, visit

[http:// www.openssh.com](http://www.openssh.com).

SSL on ProCurve Switches is based on the OpenSSL software toolkit. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. For more information on OpenSSL, visit

<http://www.openssl.org>.

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com)

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Software Management

Premium Edge Switch Software Features

The ProCurve 3500yl and 5400zl switches ship with the ProCurve Intelligent Edge software feature set. The additional Premium Edge switch software features for the 3500yl and 5400zl switches can be acquired by purchasing the optional Premium Edge license and installing it on the Intelligent Edge version of these switches. As of April, 2006, the Premium Edge features include the following:

- OSPF
- PIM Dense mode
- PIM Sparse mode
- VRRP

Part numbers for the Premium Edge licenses are:

- 3500yl switches: J8993A
- 5400zl switches: J8994A

(The ProCurve 6200yl switch is available only as a Premium Edge switch.)

To purchase a Premium Edge license, go to the following web page and click on How To Buy.

<http://www.hp.com/rnd/accessories/J8994A/accessory.htm>

To view or download a listing of Intelligent Edge and Premium Edge features, visit the ProCurve “Manuals” website at: <http://www.hp.com/rnd/support/manuals/index.htm>, and click on one of the following links:

- ProCurve Switch 3500yl and 6200yl series
- ProCurve Switch 5400zl series

Software Updates

Check the ProCurve Networking Web site frequently for free software updates for the various ProCurve switches you may have in your network.

Downloading Switch Documentation and Software from the Web

You can download software updates and the corresponding product documentation from the ProCurve Networking Web site as described below.


To Download a Software Version:

1. Go to the ProCurve Networking Web site at:

<http://www.procurve.com>.

2. Click on **Software updates** (in the sidebar).
3. Under **Latest software**, click on **Switches**.

To Download Product Documentation: You will need the Adobe® Acrobat® Reader to view, print, and/or copy the product documentation.

1. Go to the ProCurve Networking Web site at <http://www.procurve.com>.
2. Click on **Technical support**, then **Product manuals**.
3. Click on the name of the product for which you want documentation.
4. On the resulting web page, double-click on a document you want.
5. When the document file opens, click on the disk icon  in the Acrobat® toolbar and save a copy of the file.

Downloading Software to the Switch

ProCurve Networking periodically provides switch software updates through the ProCurve Networking Web site (<http://www.procurve.com>). After you acquire the new software file, you can use one of the following methods for downloading it to the switch:

- For a TFTP transfer from a server, do either of the following:
 - Select **Download OS** in the Main Menu of the switch's menu interface and use the (default) **TFTP** option.
 - Use the **copy tftp** command in the switch's CLI (see below).
- For an Xmodem transfer from a PC or Unix workstation, do either of the following:
 - Select **Download OS** in the Main Menu of the switch's menu interface and select the **Xmodem** option.
 - Use the **copy xmodem** command in the switch's CLI (page 5).
- Use the download utility in ProCurve Manager Plus.

Note

Downloading new software does not change the current switch configuration. The switch configuration is contained in a separate file that can also be transferred, for example, for archive purposes or to be used in another switch of the same model.

This section describes how to use the CLI to download software to the switch. You can also use the menu interface for software downloads. For more information, refer to the *Management and Configuration Guide* for your switch.

TFTP Download from a Server

Syntax: copy tftp flash <ip-address> <remote-os-file> [< primary | secondary >]

Note that if you do not specify the flash destination, the TFTP download defaults to the primary flash.

For example, to download a software file named K_11_1x.swi from a TFTP server with the IP address of 10.28.227.103:

1. Execute the copy command as shown below:

```
HPswitch # copy tftp flash 10.28.227.103 K_11_1x.swi
The primary OS image will be deleted. continue [y/n]? Y
03125K
```

2. When the switch finishes downloading the software file from the server, it displays the progress message

```
Validating and Writing System Software to FLASH...
```

3. When the CLI prompt re-appears, the switch is ready to reboot to activate the downloaded software:
4. Use the **show flash** command to verify that the new software version is in the expected flash area (primary or secondary)
5. Reboot the switch from the flash area that holds the new software (primary or secondary).

After the switch reboots, it displays the CLI or Main Menu, depending on the **Logon Default** setting last configured in the menu's Switch Setup screen.

Xmodem Download From a PC or Unix Workstation

This procedure assumes that:

- The switch is connected via the Console RS-232 port to a PC operating as a terminal. (Refer to the Installation and Getting Started Guide you received with the switch for information on connecting a PC as a terminal and running the switch console interface.)
- The switch software is stored on a disk drive in the PC.
- The terminal emulator you are using includes the Xmodem binary transfer feature. (For example, in the HyperTerminal application included with Windows NT, you would use the Send File option in the Transfer dropdown menu.)

Using Xmodem and a terminal emulator, you can download a switch software file to either primary or secondary flash using the CLI.

Syntax: `copy xmodem flash [< primary | secondary >]`

1. To reduce the download time, you may want to increase the baud rate in your terminal emulator and in the switch to a value such as 115200 bits per second. (The baud rate must be the same in both devices.) For example, to change the baud rate in the switch to 115200, execute this command:

```
HPswitch(config)# console baud-rate 115200
```

(If you use this option, be sure to set your terminal emulator to the same baud rate.)

Changing the console baud-rate requires saving to the Startup Config with the "write memory" command. Alternatively, you can logout of the switch and change your terminal emulator speed and allow the switch to AutoDetect your new higher baud rate (i.e. 115200 bps)

2. Execute the following command in the CLI:

```
HPswitch # copy xmodem flash primary
The primary OS image will be deleted. continue [y/n]? Y
Press 'Enter' and start XMODEM on your host...
```

3. Execute the terminal emulator commands to begin the Xmodem transfer. For example, using HyperTerminal:
 - a. Click on Transfer, then Send File.
 - b. Type the file path and name in the Filename field.
 - c. In the Protocol field, select Xmodem.
 - d. Click on the Send button.

The download can take several minutes, depending on the baud rate used in the transfer.

4. If you increased the baud rate on the switch ([step 1](#)), use the same command to return it to its previous setting. (HP recommends a baud rate of 9600 bits per second for most applications.) Remember to return your terminal emulator to the same baud rate as the switch.)

Software Management

Saving Configurations While Using the CLI

5. Use the **show flash** command to verify that the new software version is in the expected flash area (primary or secondary)
6. Reboot the switch from the flash area that holds the new software (primary or secondary).

After the switch reboots, it displays the CLI or Main Menu, depending on the **Logon Default** setting last configured in the menu's Switch Setup screen.

Saving Configurations While Using the CLI

The switch operates with two configuration files:

- **Running-Config File:** Exists in volatile memory and controls switch operation. Rebooting the switch erases the current running-config file and replaces it with an exact copy of the current startup-config file. To save a configuration change, you must save the running configuration to the startup-config file.
- **Startup-Config File:** Exists in flash (non-volatile) memory and preserves the most recently-saved configuration as the “permanent” configuration. When the switch reboots for any reason, an exact copy of the current startup-config file becomes the new running-config file in volatile memory.

When you use the CLI to make a configuration change, the switch places the change in the running-config file. If you want to preserve the change across reboots, you must save the change to the startup-config file. Otherwise, the next time the switch reboots, the change will be lost. There are two ways to save configuration changes while using the CLI:

- Execute **write memory** from the Manager, Global, or Context configuration level.
- When exiting from the CLI to the Main Menu, press **[Y]** (for Yes) when you see the “save configuration” prompt:

```
Do you want to save current configuration [y/n] ?
```

ProCurve Switch, Routing Switch, and Router Software Keys

Software Letter	ProCurve Switch, Routing Switch, or Router
C	1600M, 2400M, 2424M, 4000M, and 8000M
CY	Switch 8100fl Series (8108fl and 8116fl)
E	Switch 5300xl Series (5304xl, 5308xl, 5348xl, and 5372xl)
F	Switch 2500 Series (2512 and 2524), Switch 2312, and Switch 2324
G	Switch 4100gl Series (4104gl, 4108gl, and 4148gl)
H	Switch 2600 Series, Switch 2600-PWR Series: H.07.81 and earlier, or H.08.55 and greater, Switch 2600-8-PWR requires H.08.80 or greater.
H	Switch 6108: H.07.xx and earlier
I	Switch 2800 Series (2824 and 2848)
J	Secure Router 7000dl Series (7102dl and 7203dl)
K	Switch 3500yl Series (3500yl-24G-PWR and 3500yl-48G-PWR), Switch 6200yl-24G, and 5400zl Series (5406zl, 5406zl-48G, 5412zl, and 5412zl-96G)
L	Switch 4200vl Series(4204vl, 4208vl, 4202vl-72, and 4202vl-48G)
M	Switch 3400cl Series (3400-24G and 3400-48G): M.08.51 though M.08.97, or M.10.01 and greater; Series 6400cl (6400cl-6XG CX4, and 6410cl-6XG X2): M.08.51 though M.08.95, or M.08.99 to M.08.100 and greater.
N/A	Switch 9408sl, Switch 9300 Series (9304M, 9308M, and 9315M), Switch 6208M-SX and Switch 6308M-SX (Uses software version number only; no alphabetic prefix. For example 07.6.04.)

Version K.11.1n is the first software release for the ProCurve Series 4200vl switches.

OS/Web/Java Compatibility Table

The switch web agent supports the following combinations of OS browsers and Java Virtual Machines:

Operating System	Internet Explorer	Java
Windows NT 4.0 SP6a	5.00, 5.01 5.01, SP1 6.0, SP1	Sun Java 2 Runtime Environment: – Version 1.3.1.12 – Version 1.4.2.05
Windows 2000 Pro SP4	5.05, SP2 6.0, SP1	
Windows XP Pro SP2	6.0, SP1	Sun Java 2 Runtime Environment: – Version 1.5.0.02
Windows Server SE 2003 SP1	6.0, SP1	

Clarifications and Updates

There are currently no clarification or updates to existing documentation related to the K11.1x code.

Enhancements

Unless otherwise noted, each new release includes the enhancements added in all previous releases.

Release K.11.32 Enhancements

With the K.11.32 software release, support for the following ProCurve products was added:

- J8698A / J8700A(bundle) for the ProCurve switch 5412zl
- J8706A - ProCurve Switch 5400zl 24P Mini-GBIC Module
- J8708A - ProCurve Switch 5400zl 4P 10-GbE CX4 Module
- J8992A - ProCurve Switch 6200yl-24G-mGBIC

Release K.11.12 Enhancements

MSTP Default Path Cost Controls

Summary: 802.1D and 802.1t specify different default path-cost values (based on interface speed). These are used if the user hasn't configured a "custom" path-cost for the interface. The default of this toggle is to use 802.1t values. The reason one might set this control to 802.1D would be for better interoperability with legacy 802.1D STP (Spanning Tree Protocol) bridges.

To support legacy STP bridges, the following commands (options) have been added to CLI:

spanning-tree legacy-path-cost – Use 802.1D values for default path-cost

no spanning-tree legacy-path-cost – Use 802.1t values for default path-cost

The “legacy-path-cost” CLI command does not affect or replace functionality of the “spanning-tree force-version” command. The “spanning-tree force-version” controls whether MSTP will send and process 802.1w RSTP, or 802.1D STP BPDUs. Regardless of what the “legacy-path-cost” parameter is set to, MSTP will interoperate with legacy STP bridges (send/receive Config and TCN BPDUs).

When legacy-path-cost control is toggled, all default path costs will be recalculated to correspond to the new setting, and spanning tree is recalculated if needed.

Release K.11.13 through K.11.33 Enhancements

No enhancements, software fixes only.

Software Fixes in Release K.11.12 - K.11.3x

Software fixes are listed in chronological order, oldest to newest. To review the list of fixes included since the last general release that was published, go to [“Release K.11.32” on page 11](#).

Unless otherwise noted, each new release includes the software fixes added in all previous releases.

Release K.11.11 was the first production software release for the ProCurve 3500yl, 6200yl, and 5400zl Series switches.

Release K.11.12

The following problems were resolved in release K.11.12 (never released)

- **ACL/QoS (PR_1000317233)** — Under some circumstances, the Switch may apply an ACL or QoS configuration setting incorrectly.
- **Configuration/Security (PR_1000316441)** — Operator level can save Manager privilege level changes to the configuration.
- **Crash Log (PR_1000309533)** — Incorrect crash message displayed in the log, "Too many HSL interrupts".
- **Crash (PR_1000317489)** — Changing the QoS/ACL portion of the running configuration may cause a switch module to crash with a message similar to:

```
CL Int status=0x10000000
```

- **Gig-T SFP Modules (PR_1000316433)** — The switch accepts a Gig-T SFP dual personality module when it should not accept these modules. Is this category name correct?
- **Help file enhancement (PR_1000300491)** — Added support for Help files. Switch can provide a navigation pane on the left side of the screen containing 'Contents' and 'Search' capability.
- **10 Gig Transceiver (PR_1000317965)** — Switch reports incorrect Link status when a defective fiber cable is connected to the Switch.
- **LED (PR_1000316434)** — If a mini-GBIC is installed during switch bootup, that port's link LED will not turn on.
- **MSTP Enhancement (PR_1000310463)** — Implementation of legacy path cost MIB and CLI option for MSTP.
- **RSTP (PR_1000307278)** — Replacing an 802.1D bridge device with an end node (non-STP device) on the same Switch port, can result in the RSTP Switch sending TCNs.

Software Fixes in Release K.11.12 - K.11.3x

Release K.11.13

- **Web UI (PR_1000303371)** — In the Web User Interface, the QOS Device Priority window scroll bar does not allow sufficient scrolling to view all entries.
- **Web UI (PR_1000311917)** — When the last port on the last card is configured in a trunk or mesh, and a user browses to a specific location in the Web user interface, the HTTP web server degrades the switch, causing the Web user interface to hang.

Release K.11.13

The following problems were resolved in release K.11.13 (never released)

- **Routing (PR_1000306239)** — In some cases, the command 'show ip route' may display incorrect information.
- **Self-test (PR_1000315509)** — The self-test LED does not turn off after bootup of an empty chassis.
- **sFlow (PR_1000317785)** — Using Inmon Traffic Server, traffic will be reported on ports with no traffic present. Other ports may or may not have faulty counter reports.

Release K.11.14

The following problems were resolved in release K.11.14 (never released)

- **SNMP (PR_1000315054)** — SNMP security violations are entering the switch syslog when a valid SNMPv3 'get' operation is initiated.
- **Web (PR_1000302713)** — When using the web interface and a large amount of stacking interactions occur, portions of the information from the stack commander may no longer appear.

Release K.11.15

The following problems were resolved in release K.11.15 (never released)

- **CLI (PR_1000298299)** — After a reboot, the Switch does not provide warning that the running configuration and startup configuration differ, and does not offer an option to save the running configuration.
- **CLI (PR_1000315256)** — Inconsistent error message, "Resource unavailable," when configuring more than the maximum number of allowed static IP routes.
- **Crash (PR_1000322009)**— The Switch may crash with a message similar to:

Software exception in ISR at queues.c:123.

- **Menu (PR_1000318531)** — When using the Menu interface, the Switch hostname may be displayed incorrectly.

Release K.11.16

The following problems were resolved in release K.11.16 (not a general release)

- **10 GbE module (PR_1000321201)** — At a high temperature and with long cables, the Switch 3500y1 X2/CX4 10-GbE module (J8694A) may not work properly.

Release K.11.17

The following problems were resolved in release K.11.17

- **Stacking (PR_1000298299)** - The Stack Commander setting is not written to the configuration file, so Web/Stacking does not work.

Release K.11.32

The following problems were resolved in release K.11.32

- **Authentication (PR_1000334731)** — PEAP/TLS EAP types with IAS Radius Server fail to authenticate.
- **CLI (PR_1000298038)** — The command "show arp" displays incomplete information.
- **CLI (PR_1000308346)** — The command "show tech" failed to execute.
- **CLI (PR_1000308601)** — The Stack Close Up device view does not display all stack members.
- **CLI (PR_1000329325)** — Unrecognizable characters printed to console on User Authentication timeout when logging in via TACAS server.
- **CLI (PR_1000329977)** — User is unable to edit any SNMPv3 target address entries.
- **Config (PR_1000326255)** — The stacking interval setting does not appear in the startup or running configuration files.
- **Crash (PR_1000228633)** — The Switch may crash with a message similar to:

```
Software exception at ldbal_cost.c:1577 -- in 'eDrvPoll', task ID = 0x1760650-> ASSERT: failed.
```
- **Crash (PR_1000314305)** — The switch may crash with a message similar to:

```
Software exception at ipamMApi.c:1592/1594 -- in 'eRouteCtrl'
```

Software Fixes in Release K.11.12 - K.11.3x
Release K.11.32

- **Crash (PR_1000323759)** — The Switch may crash with a message similar to:
TLB Miss: Virtual Addr=0x00000185 IP=0x8027ae04 Task='mLACPCtrl'
Task ID=0x81597410 fp:0x00000000 sp:0x815972d0 ra:0x8027aa90
sr:0x1000fc01.
- **Crash (PR_1000324041)** — A module may crash due to ACL Parity Interrupt with a message similar to
'ACL Int stats=0x1000000 28=0x80000b2'.
- **Crash (PR_1000325030)** — The Switch may crash with a message similar to:
'Software exception at vls_dyn_reconfig.c:1939 -- in 'mLpmgrCtrl', task
ID = 0xa139a80'.
- **Crash (PR_1000325540)** — The Switch may crash with a message similar to:
Software exception at sw_sem.c:712 -- in 'mSnmpCtrl'.
- **Crash (PR_1000327132)** — The Switch may crash with a message similar to:
Software exception in ISR at btmDmaApi.c:304.
- **Crash (PR_1000329818)** — The Switch may crash with a message similar to:
assert in btmDmaApi.c:289 - out of msgs, need to throttle rmon & syslog
msgs.
- **Crash (PR_1000330009)** — The Switch may crash with a message similar to:
slave assert at btftSlaveLearn.c:1426 - extended bcast loop condition.
- **Crash (PR_1000332703)** — The Switch may crash with a message similar to:
slave assert at ngDmaRx.c:495 - ease sample outbound received a fragment.
- **Crash (PR_1000329485)** — Broadcast loop creates additional packets causing throughput
traffic to decrease.
- **Crash/ACL (PR_1000332850)** — When authenticating using Radius ACLS, configuring and
un-configuring multiple ACLs may cause the Switch to crash.
- **Crash (PR_1000334992)** — The Switch may crash with a message similar to:
Software exception in ISR at btmDmaApi.c:289 -> No resources available.
- **Crash (PR_1000335430)** — The Switch may crash with a message similar to:
"Cam range reservation error" crash at aqSlaveRanges.c:172.
- **Event Log (PR_1000308669)** — After a Switch reset, the event log does not display correct
information.

- **Event Log (PR_1000310958)** — Unsupported modules do not produce an event log message in the Switch.
- **Fault LED (PR_1000314005)** — Upon a fan fault, the fault LED does not indicate an error.
- **Flash Memory (PR_1000320941)** — An incorrect error message is displayed when the Switch experiences a Flash memory failure.
- **Flow Control (PR_1000333879)** — Flow Control not functioning properly.
- **Help Menu (PR_1000307772)** — The Help menu text for command "router pim rp-candidate hold-time" displayed incorrect values.
- **Help Menu (PR_1000326670)** — Web User Interface Help file link URLs exceed maximum length.
- **ICMP (PR_1000315805)** — When the Switch receives a UDP packet on a closed port, Switch fails to send an ICMP response message back to the sender.
- **ICMP/Rate Limiting (PR_1000319946)** — Configuring ICMP Rate Limiting on interfaces causes the Switch to create duplicate requests, which affects the total throughput of the blade.
- **LED (PR_1000325259)** — Test LED flashing wrong color when a defective Mini-GBIC is installed.
- **LLDP (PR_1000319356)** — LLDP does not discover CDPv2 devices.
- **MAC Authentication (PR_1000329738)** — Switch may improperly flush the ARP cache when adding or removing an authorized MAC address.
- **MAC Authentication (PR_1000335314)** — While authenticating multiple ports via MAC authentication, the Switch successfully authenticates the port but fails to learn the source MAC address.
- **Meshing (PR_1000325260)** — With meshing enabled, it is possible that packet buffers may get corrupted resulting in a Switch reboot.
- **Module (PR_1000307404)** — With no cable attached, the X2 CX4 transceiver link LED remains on after a switch power up or hot swap of module.
- **Modules (PR_1000314454)** — Blades fail to reboot (retry) after failing a selftest.
- **Module (PR_1000330312)** — Booting up the Switch with an unsupported module installed may cause all existing modules to fail.
- **MSTP Enhancement (PR_1000331792)** — Implementation of Spanning-tree BPDU Filter and SNMP Traps.

Software Fixes in Release K.11.12 - K.11.3x

Release K.11.33

- **Power Supply (PR_1000310159)** — After power supply failovers, the Switch incorrectly reports power being available on ports that are actually powered down.
- **QoS/Rate Limiting (PR_1000319946)** — QoS/Rate limiting may stop working or impact unwanted traffic streams.
- **QOS (PR_1000325028)** — Switch may crash after configuring QOS device-priority.
- **SNMPv3 (PR_1000325021)** — SNMPv3 lines may mistakenly be removed from the configuration file.
- **STP (PR_1000333992)** — In a redundant STP network with PIM running, PIM packets may get assigned a higher queue priority than STP packets, which may cause network loops.
- **Switch (PR_1000327506)** — Fixed issue where Switch incorrectly allowed jumbos frames to be configured for 10/100 ports.
- **VLAN (PR_1000334107)** — User is unable to add a port to a VLAN and the Switch responds with an invalid error message.
- **Web UI (PR_1000308213)** — Removed Web Stacking Tab within the Web User Interface for the 5400zl products.
- **Web UI (PR_1000308225)** — When using the Web User Interface, the device view of the Stack Close-up is missing.
- **Web UI (PR_1000311087)** — Serial number for 5400zl products within the Web-UI exceeds the provided rectangle.
- **Web UI (PR_1000322777)** — When using the Web User Interface in the Configuration Tab, a user is unable to modify a port name.
- **Web UI (PR_1000329279)** — When using the web user interface Commander's Stack Close Up view, some stack members are not displayed.

Release K.11.33

The following problems were resolved in release K.11.33

- **Buffer Leak (PR_1000336963)** — The Switch may run out of packet buffers under certain conditions.
- **Crash/ACL (PR_1000337717)** — When the Switch is configured for ACL logging, it may crash with a message similar to:

```
Software exception at alloc_free.c:422 -- in 'eDrvPoll'...-> No msg  
buffer.
```

- **Module J8705A (PR_1000336281)** — The Switch 5400zl 20P 10/100/1000 + 4 mini GBIC module (J8705A) may stop forwarding packets.



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