

Power-Saving Features

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Overview

There are several power-saving features that can be configured for the indicated switches and modules. The power-saving features include the ability to:

- Turn slot power on or off
- Turn LED power on or off using a timer
- Slot auto low power mode

The modules support the power-saving features as indicated in the table below.

Product Number	Description	LED Power On/Off	Slot Auto Low Power Mode	Slot Power On/Off
J8702A	ProCurve Switch zl 24 10/100/1000 PoE Module	Yes	Yes	Yes
J8705A	ProCurve Switch zl 20 Gig-T + 4 mGBIC Module	Yes	Yes	Yes
J8706A	ProCurve Switch zl 24-Port Mini-GBIC Module	Yes	No	Yes
J8707A	ProCurve Switch zl 4-Port 10GbE X2 Module	Yes	No	Yes
J8708A	ProCurve Switch zl 4-Port 10GbE CX4 Module	Yes	No	Yes
J9307A	HP ProCurve 24-Port 10/100/1000 PoE+ zl Module	Yes	Yes	Yes
J9308A	HP ProCurve 20-Port 10/100/1000 PoE+/4-Port MiniGBIC zl Module	Yes	Yes	Yes
J9309A	HP ProCurve 4-Port 10Gbe SFP+ zl Module	Yes	No	Yes
J9478A	HP ProCurve 24-Port 10/100 PoE+ zl Module	Yes	Yes	Yes

Configuring the Power-Saving Options

The **savepower** command provides configurable power-saving options.

Syntax: [no] savepower <module [slot-list | all] | led [slot-id] | port-low-pwr [slot-id]>

Configures power-saving features.

module [slot-id]: Turns power-saving options on or off for all modules or a specified module.

*The **no** form of the command powers on all the slots if they are powered off already.*

led [slot-id]: Turns power-saving options on or off for the LEDs for all modules or a specified module.

port-low-pwr [slot-id]: Enables or disables auto power down for all slots or a specified slot.

Configuring the Savepower module Option

The **module** option provides the ability to turn the slot power on or off. If no module is specified, then all slots are powered off. You can also specify **all** to turn off the power for all slots. If the command is preceded by **no**, then all the slots are powered on, if off already.

```
ProCurve(config)# savepower module c
ProCurve(config)# show savepower module

Module Save Power Information

Slot | Status
----+-----
A    | Disabled
B    | Disabled
C    | Enabled
D    | Disabled
E    | Disabled
```

Figure I-1. Example of savepower module Command

The **savepower module** command shuts down the specified modules in the order specified in the command. The ports on these modules no longer pass traffic. Any management traffic (SNMP, SSH, Telnet) that passes through these modules is interrupted. It can take up to two minutes to power down all the specified modules. Check the event log to see the current status of the module power down. This command applies to PoE/PoE+ modules as well as non-PoE/PoE+ modules.

You can verify the status of the **savepower** command by using the **show modules** command or by checking the log messages (for 8200zl and 5400zl switches).

Note

If a **savepower module <slot-list>** or **savepower all** command is immediately followed by a **no savepower module <slot-list>** or **no savepower all** command, the first slot in the list is powered down and then brought up.

Configuring the Savepower LED Option

The savepower LED option provides the ability to configure a timer for turning off the chassis LEDs as well as the configured slot LEDs. There is one system-wide timer; all the selected slots will have the chassis LEDs turned off for the same amount of time.

Syntax: [no] savepower led [slot-id] < MM/DD/[YY]YY <HH:MM> | now > duration [HH:<MM> [recur]

Schedules a timer for turning off the chassis LEDs and configured slot LEDs. The LEDs are turned off for the configured time period and duration.

If a slot is specified, the LEDs for that slot are turned off. This is enabled by the timer command, however, if a timer is already running, the feature is enabled immediately.

*The **all** option can be specified for the **slot-id**. All the switch LEDs are turned off.*

<MM/DD/[YY]YY <HH:MM>>: Specifies the date and time to start the timer.

now: Instantaneously turns off the LEDs. The configured timer is canceled and all the configured modules go into power-saving mode immediately.

duration <[HH:]MM>: The amount of time the LEDs remain turned off. Optional. If the duration value is zero, when the timer starts the LEDs are turned off indefinitely until the timer is canceled or the command is overridden with another command. Default: 0 (zero)

*recur: Optional. If specified, the LEDs are turned off on a daily basis at the configured time. The **recur** option is ignored if the duration is configured as zero. Default: disabled.*

If the configured time is less than two minutes from the current time, the LEDs will be turned off instantly, however, the start time of the timer is shown as two minutes from the current time.

A new command overrides the previous command, regardless of the current state. For example, if a timer is active and new command is given, the currently running timer is canceled and the new timer is scheduled.

The **no** form of the **savepower led** command cancels any scheduled or running timer and the LEDs are returned to their original state. The **all** option can be specified with the **no** command to turn on all the switch LEDs.

```
ProCurve(config)# savepower led timer 06/01/2009 12:01 duration 12:00 recur

ProCurve(config)# show savepower led

Led Save Power Information

Alarm Start Time       : 06/01/09 12:01:07
Alarm Duration (HH:MM) : 12:00
Recurrent Status      : Enabled

Led Save Power Information

Slot | Status
----+-----
A   | Disabled
B   | Disabled
C   | Disabled
D   | Disabled
E   | Disabled
```

Figure I-2. Example of Setting a Time and Duration for savepower led Command

Configuring the Savepower port-low-pwr Option

The **port-low-pwr** option puts the slots into auto low power mode if they are not linked. If a particular slot is specified, only that slot goes into auto low power mode. Specifying **all** puts all the slots into auto low power mode.

The ports in low power mode periodically monitor to determine if the link has become active. If a LAN cable is connected to one of the ports, that port will come out of the low power mode state after approximately 2 seconds (the monitor period) and enter into normal power mode. The remaining ports continue to be in low power mode.

The **no** form of the command puts the specified slot into normal power mode. Specifying **all** with the **no** form of the command puts all the slots into normal power mode.

```
ProCurve(config)# savepower port-low-pwr c
ProCurve(config)# show savepower port-low-pwr

Port Save Power Information

Slot | Status
----+-----
A    | Disabled
B    | Disabled
C    | Enabled
D    | Disabled
E    | Disabled
```

Figure I-3. Example of savepower port-low-power Command for Slot C

Show Savepower Commands

The settings for the **savepower** commands can be viewed using the appropriate **show** command.

Show Savepower Module.

To display the settings for the **savepower module** command, use **show savepower module**.

```

ProCurve(config)# show savepower module

Module Save Power Information

Slot | Status
-----+-----
A    | Disabled
B    | Disabled
C    | Enabled
D    | Disabled
E    | Disabled

```

Figure I-4. Example of Output for show savepower module Command

Show Savepower Port-low-pwr.

To display the status of the power-down feature for the slots, use the **show savepower port-low-pwr** command. For the stackable switches, the output shows if the feature is enabled or not enabled.

```

ProCurve(config)# show savepower port-low-pwr

Port Save Power Information

Slot | Status
-----+-----
A    | Enabled
B    | Enabled
C    | Enabled
D    | Enabled
E    | Enabled

```

Figure I-5. Example of Output for show savepower port-low-pwr Command

Show Savepower LED.

To display the configured status of the LED power-saving option, use the **show savepower led** command.

```
ProCurve(config)# show savepower led

Led Save Power Information

Alarm Start Time      : 06/01/09 12:01:07
Alarm Duration (HH:MM) : 12:00
Recurrent Status     : Enabled

Led Save Power Information

Slot | Status
----+-----
A   | Enabled
B   | Enabled
C   | Enabled
D   | Enabled
E   | Enabled
```

Figure I-6. Example of Output for show savepower led Command