



Managing the Switch

- [Displaying Information About the Installed Hardware Modules, on page 1](#)
- [Displaying the Hardware Inventory for the Switch, on page 4](#)
- [Displaying the Modules for the Switch, on page 5](#)
- [Displaying the Serial PROM \(SPROM\) for the Switch, on page 6](#)
- [Displaying Environmental Information for the Switch, on page 7](#)
- [Displaying Environment Temperature for the Switch, on page 8](#)

Displaying Information About the Installed Hardware Modules

You can display information about the switch hardware and the hardware modules that are installed in the switch by using the **show hardware** command.

```
ASW4_QP_LEM# show hardwareCisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
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Software
  BIOS: version 01.09
  NXOS: version 10.3(2) [Feature Release]
  Host NXOS: version 10.3(2)
  BIOS compile time: 09/28/2022
  NXOS image file is: bootflash:///nxos64-cs.10.3.2.F.bin_24
  NXOS compile time: 11/30/2022 12:00:00 [12/16/2022 04:02:06]
  NXOS boot mode: LXC
```

Hardware

```

cisco Nexus9000 C9408 Chassis
Intel(R) Xeon(R) CPU D-1633N @ 2.50GHz with 32801260 kB of memory.
Processor Board ID FDO262208WX
Device name: ASW4_QP_LEM
bootflash: 115343360 kB

```

```
Kernel uptime is 2 day(s), 22 hour(s), 9 minute(s), 16 second(s)
```

```

Last reset at 282926 usecs after 1671239402
Reason: Reset Requested by CLI command reload
System version: 10.3(2)
Service:

```

```

plugin
  Core Plugin, Ethernet Plugin
-----
Switch hardware ID information
-----

```

```

Switch is booted up
Switch type is : Nexus9000 C9408 Chassis
Model number is N9K-C9408
H/W version is 0.1
Part Number is 73-102375-03
Part Revision is 03
Manufacture Date is Year 2022 Week 21
Serial number is FDO262100LC
CLEI code is 0

```

```
-----
Chassis has 8 Module slots
-----
```

```

Module1 ok
Module type is : "Supervisor"
0 submodules are present
Model number is
H/W version is 0.0
Part Number is
Part Revision is
Manufacture Date is Year 1996 Week 0
Serial number is
CLEI code is

```

```
LEM-Module1 empty
```

```

LEM-Module2 ok
LEM-Module type is : 8x400G Ethernet Module
0 submodules are present
Model number is N9K-X9400-8D
H/W version is 0.3
Part Number is 73-102376-03
Part Revision is 07
Manufacture Date is Year 2022 Week 22
Serial number is FDO26221BA7
CLEI code is 0

```

```

LEM-Module3 ok
LEM-Module type is : 16x200G Ethernet Module
0 submodules are present
Model number is N9K-X9400-16W
H/W version is 0.3
Part Number is 73-102377-03
Part Revision is 07
Manufacture Date is Year 2022 Week 22

```

```
Serial number is FDO262213VA
CLEI code is 0

LEM-Module4 empty

LEM-Module5 ok
LEM-Module type is : 8x400G Ethernet Module
0 submodules are present
Model number is N9K-X9400-8D
H/W version is 0.3
Part Number is 73-102376-03
Part Revision is 07
Manufacture Date is Year 2022 Week 22
Serial number is FDO26221BAK
CLEI code is 0

LEM-Module6 empty

LEM-Module7 ok
LEM-Module type is : 16x200G Ethernet Module
0 submodules are present
Model number is N9K-X9400-16W
H/W version is 0.3
Part Number is 73-102377-03
Part Revision is 07
Manufacture Date is Year 2022 Week 22
Serial number is FDO262213VQ
CLEI code is 0

LEM-Module8 empty

-----
Chassis has 4 PowerSupply Slots
-----

PS1 fail/shutdown
Power supply type is: 2000.00W 220v AC
Model number is NXA-PAC-2KW-PI
H/W version is 0
Part Number is 341-1888-01
Part Revision is A0
Manufacture Date is Year 2021 Week 47
Serial number is POG2547JACK
CLEI code is CMUPAFGCAA

PS2 fail/shutdown
Power supply type is: 2000.00W 220v AC
Model number is NXA-PAC-2KW-PI
H/W version is 0
Part Number is 341-1888-01
Part Revision is A0
Manufacture Date is Year 2021 Week 47
Serial number is POG2547JA1Q
CLEI code is CMUPAFGCAA

PS3 fail/shutdown
Power supply type is: 2000.00W 220v AC
Model number is NXA-PAC-2KW-PI
H/W version is 0
Part Number is 341-1888-01
Part Revision is A0
Manufacture Date is Year 2021 Week 47
Serial number is POG2547JAH6
CLEI code is CMUPAFGCAA
```

```

PS4 ok
Power supply type is: 2000.00W 220v AC
Model number is NXA-PAC-2KW-PI
H/W version is 0
Part Number is 341-1888-01
Part Revision is A0
Manufacture Date is Year 2021 Week 47
Serial number is POG2547JA20
CLEI code is CMUPAFGCAA

```

```

-----
Chassis has 5 Fan slots
-----

```

```
Fan1 ok
```

```
Fan2 ok
```

```
Fan3 ok
```

```
Fan4 ok
```

```
Fan5 ok
```

```
ASW4_QP_LEM#
```

Displaying the Hardware Inventory for the Switch

You can display information about the field replaceable units (FRUs), that are installed in the switch by using the **show inventory** command.

```

ASW4_QP_LEM# show inventory
NAME: "Chassis",  DESCR: "Nexus9000 C9408 Chassis"
PID: N9K-C9408      ,  VID: V00 ,  SN: FDO262100LC

NAME: "Switch Card",  DESCR: "Switch Card"
PID: N9K-C9400-SW-GX2A  ,  VID: V00 ,  SN: FDO262200E1

NAME: "Slot 1",  DESCR: "Supervisor"
PID: N9K-C9400-SUP-A    ,  VID: V00 ,  SN: FDO262208WX

NAME: "Slot 27",  DESCR: "Supervisor"
PID: N9K-C9400-SUP-A    ,  VID: V00 ,  SN: FDO262208WX

NAME: "LEM 2",  DESCR: "8x400G Ethernet Module"
PID: N9K-X9400-8D      ,  VID: V00 ,  SN: FDO26221BA7

NAME: "LEM 3",  DESCR: "16x200G Ethernet Module"
PID: N9K-X9400-16W     ,  VID: V00 ,  SN: FDO262213VA

NAME: "LEM 5",  DESCR: "8x400G Ethernet Module"
PID: N9K-X9400-8D      ,  VID: V00 ,  SN: FDO26221BAK

NAME: "LEM 7",  DESCR: "16x200G Ethernet Module"
PID: N9K-X9400-16W     ,  VID: V00 ,  SN: FDO262213VQ

NAME: "Power Supply 1",  DESCR: "Nexus9000 C9408 Chassis Power Supply"
PID: NXA-PAC-2KW-PI    ,  VID: V01 ,  SN: POG2547JACK

NAME: "Power Supply 2",  DESCR: "Nexus9000 C9408 Chassis Power Supply"
PID: NXA-PAC-2KW-PI    ,  VID: V01 ,  SN: POG2547JA1Q

```

```

NAME: "Power Supply 3",  DESCR: "Nexus9000 C9408 Chassis Power Supply"
PID: NXA-PAC-2KW-PI      ,  VID: V01 ,  SN: POG2547JAH6

NAME: "Power Supply 4",  DESCR: "Nexus9000 C9408 Chassis Power Supply"
PID: NXA-PAC-2KW-PI      ,  VID: V01 ,  SN: POG2547JA20

NAME: "Fan 1",  DESCR: "Nexus9000 C9408 Chassis Fan Module"
PID: N9K-C9400-FAN-PI    ,  VID: V01 ,  SN: N/A

NAME: "Fan 2",  DESCR: "Nexus9000 C9408 Chassis Fan Module"
PID: N9K-C9400-FAN-PI    ,  VID: V01 ,  SN: N/A

NAME: "Fan 3",  DESCR: "Nexus9000 C9408 Chassis Fan Module"
PID: N9K-C9400-FAN-PI    ,  VID: V01 ,  SN: N/A

NAME: "Fan 4",  DESCR: "Nexus9000 C9408 Chassis Fan Module"
PID: N9K-C9400-FAN-PI    ,  VID: V01 ,  SN: N/A

NAME: "Fan 5",  DESCR: "Nexus9000 C9408 Chassis Fan Module"
PID: N9K-C9400-FAN-PI    ,  VID: V01 ,  SN: N/A

ASW4_QP_LEM#

```

Displaying the Modules for the Switch

You can display information about the modules, that are installed in the switch by using the **show module** command.

```

switch# show module
Mod Ports      Module-Type          Model                Status
-----
1      0      Supervisor          N9K-C9408-SUP-A     active *
27     0      Virtual Supervisor  N9K-C9400-SUP-A     active *

Mod Sw          Hw   Slot
-----
1      10.3(2)      0.4  LC1
27     10.3(2)      0.4  SUP1

Mod  MAC-Address(es)          Serial-Num
-----
1      60-26-aa-48-c8-40 to 60-26-aa-48-c8-7f  FDO262208WX
27     60-26-aa-48-c8-40 to 60-26-aa-48-c8-7f  FDO262208WX

Mod  Online Diag Status
-----
1      Pass
27     Pass

* this terminal session
Lem Ports      Module-Type          Model                Status
-----
1      16      16x200G Ethernet  N9K-X9400-8D        ok
2      8       8x400G Ethernet  N9K-X9400-8D        ok
4      8       8x400G Ethernet  N9K-X9400-16W       ok

Mod Sw          Hw   Slot
-----

```

```

1    NA                0.1010 LC1
2    NA                0.1010 LC2
4    NA                0.1010 LC4

Lem  MAC-Address(es)                Serial-Num
---  -----
1    0c-75-bd-37-2c-fe to 0c-75-bd-37-2d-1d FOC223620GT
2    0c-75-bd-37-2d-1e to 0c-75-bd-37-2d-3d FOC224291Q8
4    0c-75-bd-37-2d-5e to 0c-75-bd-37-2d-7d FOC224291TA

Lem  Online Diag Status
---  -----
1    Pass
2    Pass
4    Pass
switch#

```

Displaying the Serial PROM (SPROM) for the Switch

You can display information about the SPROM, for the switch by using the **show sprom** command.

```

switch# show sprom backplane 1
DISPLAY backplane sprom contents:
Common block:
Block Signature : 0xABAB
Block Version  : 3
Block Length   : 160
Block Checksum : 0x168E
EEPROM Size    : 65535
Block Count    : 3
FRU Major Type : 0x6002
FRU Minor Type : 0x0
OEM String     : Cisco Systems, Inc
Product Number : N9K-C9408
Serial Number  : FOC23086N6A
Part Number    : 73-19248-01
Part Revision  : 1
Mfg Deviation  : 0
H/W Version    : 0.0
Mfg Bits       : 0
Engineer Use   : 0
snmpOID       : 9.12.3.1.3.1824.0.0
Power Consump  : -6200
RMA Code       : 0-0-0-0
CLEI Code      : 12345678
VID            : V01
Chassis specific block:
Block Signature : 0x6001
Block Version   : 3
Block Length    : 39
Block Checksum  : 0x419
Feature Bits    : 0x0
HW Changes Bits : 0x0
Stackmib OID    : 0
MAC Addresses   : 00-00-ab-cd-dc-ba
Number of MACs  : 128
OEM Enterprise  : 0
OEM MIB Offset  : 0
MAX Connector Power: 0
WWN software-module specific block:
Block Signature : 0x6005

```

```

Block Version      : 1
Block Length       : 0
Block Checksum     : 0x66
wnn usage bits:
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00
License software-module specific block:
Block Signature    : 0x0
Block Version      : 0
Block Length       : 0
Block Checksum     : 0x0
lic usage bits:
00 00 00 00 00 00 00 00
Second Serial number specific block:
Block Signature    : 0x0
Block Version      : 0
Block Length       : 0
Block Checksum     : 0x0
Serial Number      :
switch#
    
```

Displaying Environmental Information for the Switch

You can display information about the environment, for the switch by using the **show environment** command.

```

switch# show environment
Fan:
-----
Fan          Model          Hw      Direction     Status
-----
Fan1(sys_fan1) N9K-C9400-FAN-PI  --      front-to-back  Ok
Fan2(sys_fan2) N9K-C9400-FAN-PI  --      front-to-back  Ok
    
```

```

Fan3(sys_fan3)  N9K-C9400-FAN-PI    --    front-to-back  Ok
Fan4(sys_fan4)  N9K-C9400-FAN-PI    --    front-to-back  Ok
Fan5(sys_fan5)  N9K-C9400-FAN-PI    --    front-to-back  Ok
Fan_in_PS1     --                --    front-to-back  Ok
Fan_in_PS2     --                --    front-to-back  Ok
Fan_in_PS3     --                --    front-to-back  Ok
Fan_in_PS4     --                --    front-to-back  Ok
Fan Zone Speed: Zone 1: 0x72
Fan Air Filter : NotSupported

```

```

Power Supply:
Voltage: 12 Volts
Power
Supply      Model                Actual      Actual      Total
                Output      Input      Capacity
                (Watts )    (Watts )    (Watts )
-----
1           NXA-PAC-2KW-PI                507 W      552 W      2000 W      Ok
2           NXA-PAC-2KW-PI                555 W      603 W      2000 W      Ok
3           NXA-PAC-2KW-PI                506 W      552 W      2000 W      Ok
4           NXA-PAC-2KW-PI                507 W      552 W      2000 W      Ok

```

Power Usage Summary:

```

-----
Power Supply redundancy mode (configured)           PS-Redundant
Power Supply redundancy mode (operational)         PS-Redundant

Total Power Capacity (based on configured mode)    6000.00 W
Total Grid-A (first half of PS slots) Power Capacity 4000.00 W
Total Grid-B (second half of PS slots) Power Capacity 4000.00 W
Total Power of all Inputs (cumulative)              8000.00 W
Total Power Output (actual draw)                    2075.00 W
Total Power Input (actual draw)                     2259.00 W
Total Power Allocated (budget)                      N/A
Total Power Available for additional modules         N/A

```

Temperature:

```

-----
Module  Sensor      MajorThresh  MinorThres  CurTemp  Status
                (Celsius)    (Celsius)    (Celsius)
-----
1       FRONT      55           35          35       Ok
1       BACK       80           70          36       Ok
1       CPU        90           80          55       Ok
1       Quadpeaks 125          100         81       Ok
ASW4_QP_LEM#

```

Displaying Environment Temperature for the Switch

You can display information about the environment, for the switch by using the **show environment temperature** command.

```
ASW4_QP_LEM# show environment temperature
```

```
show environment temperature
```

```
Temperature:
```

```

-----
Module  Sensor      MajorThresh  MinorThres  CurTemp  Status
                (Celsius)    (Celsius)    (Celsius)
-----

```


1	FRONT	55	35	35	Ok
1	BACK	80	70	36	Ok
1	CPU	90	80	49	Ok
1	Quadpeaks	125	100	81	Ok

ASW4_QP_LEM#

