



## LEDs


You can perform the following check on LEDs that assist you with the troubleshooting process:

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## Chassis LED

The LEDs indicate whether each type of module (supervisor modules, line cards, fabric modules, fan trays, and power supplies) is fully functional or have a fault condition.

**Table 1: Chassis LED Descriptions**

| LED  | Color | Status  |
|--|-------|---|
| ATTN<br>(Attention)<br><br> | Blue  | The operator has activated this LED to identify this chassis. |
|  | Off   | The chassis is not functional.                                |

## Port Status LEDs

Each port on N9K-X98900CD-A (only) has an LED. The following table describes port status LEDs.

**Table 2: Port Status LEDs (One Per Port)**

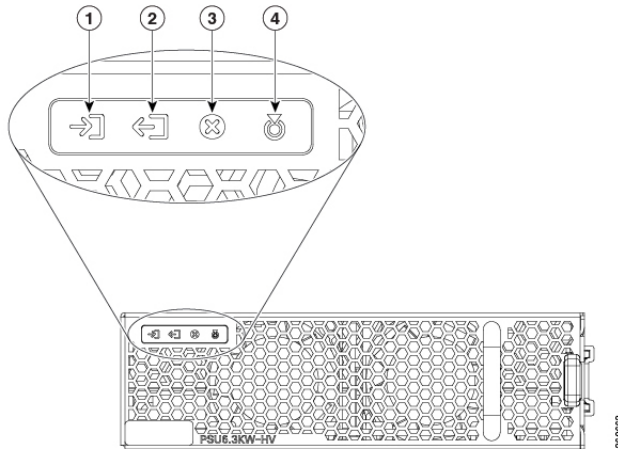
| LED Color | Description                         |
|-----------|-------------------------------------|
| Off       | Port is administratively shut down. |

| LED Color      | Description  |
|----------------|--|
| Green          | Port is administratively enabled and the link is up.   |
| Amber          | Port is administratively enabled and the link is down. |
| Flashing Amber | Port is faulty and disabled.                           |

## Power Supply LEDs

The power supply LEDs are located on the front portion of the module.


**Figure 1: Power Supply LEDs**



|   |           |   |                  |
|---|-----------|---|------------------|
| 1 | Input OK  | 3 | Fault            |
| 2 | Output OK | 4 | ATTN (Attention) |

**Table 3: Power Supply LED Descriptions**

| LED       | Color          | Status  |
|-----------|----------------|---|
| Input OK  | Green          | Both input voltages are present.  |
|           | Flashing Green | Only one input power is present.  |
|           | Off            | No input power is present.  |
| Output OK | Green          | Output power is enabled.  |
|           | Flashing Green | Output power in power limit, or in overcurrent condition, or is in the sleep-mode. <sup>1</sup> |
|           | Off            | Output disabled, or no inputs present, or firmware upgrade in-progress.                         |

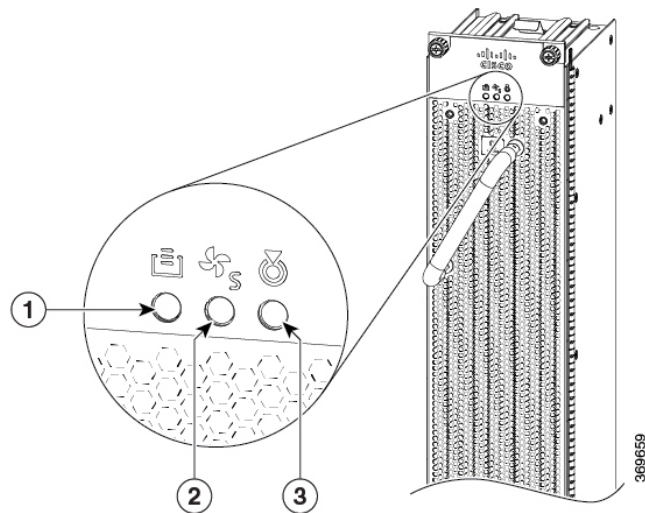
| LED   | Color         | Status  |
|---|---------------|---|
| Fault   | Red           | Output voltage is out of the specified range, or a fan has failed, or internal fault. |
|   | Flashing red  | Firmware upgrade in-progress.   |
| ATTN (Attention)<br> | Flashing blue | User configured action <i>config hw-module attention-led location 0/PTx/PMx</i> .     |
|   | Off           | No user configuration is set.   |

<sup>1</sup> Sleep mode is not applicable for DC-60 power module.

## Fan Tray LEDs


The fan tray LEDs are located on the top portion of the module.

**Figure 2: Fan Tray LEDs**



|   |                 |   |                  |
|---|-----------------|---|------------------|
| 1 | FC STS (Status) | 3 | ATTN (Attention) |
| 2 | FT STS (Status) |   |                  |

**Table 4: Fan Tray LED Descriptions**

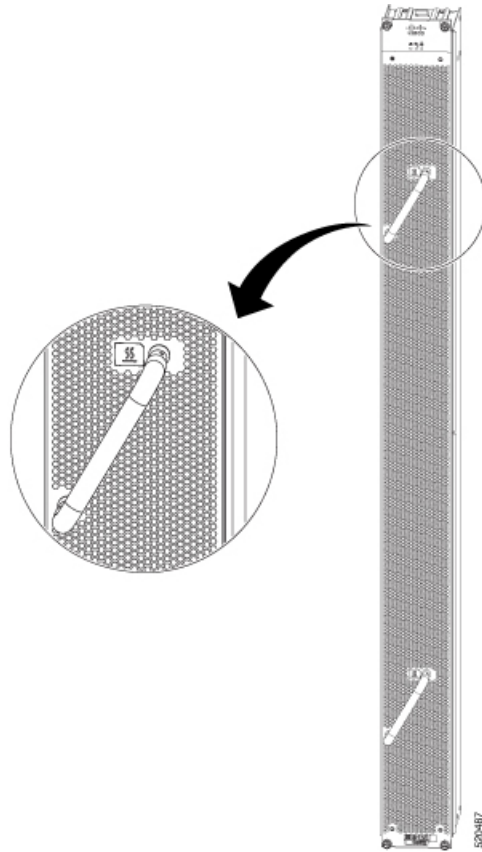
| LED   | Color         | Status  |
|---|---------------|---|
| ATTN (Attention)<br> | Flashing Blue | The operator has activated this LED to identify the fan tray in the chassis.    |
|   | Off           | The operator had not activated the LED to identify the fan tray in the chassis. |

| LED    | Color          | Status   |
|--------|----------------|--|
| FT STS | Amber          | The fan tray is powered on.  |
|        | Green          | The fan tray is operational.   |
|        | Flashing amber | The module has minor alarm.  |
|        | Flashing red   | The module has active major or critical alarms.  |
|        | Flashing green | FPD upgrade in-progress.   |
|        | Off            | No power to the fan tray.  |
| FC STS | Amber          | The fabric cards are powered on and is in one of the following states: <ul style="list-style-type: none"> <li>• Either one or more fabric cards behind this fan tray is not operational.</li> <li>• Either one or more fabric cards behind this fan tray have minor, major or critical alarm.</li> </ul> |
|        | Green          | <ul style="list-style-type: none"> <li>• One of the fabric modules is operational and other one not present.</li> <li>• Both fabric cards behind this fan tray are operational.</li> </ul>   |
|        | Off            | If both the fabric modules behind this fan tray are plugged out (or not present).  |

## Temperature Warning Label

Every fan tray has a temperature warning label beside its handle. The temperature warning label is temperature sensitive. At normal operating temperatures (less than 55°C), the warning label has a black background with black edges. At temperatures above 55°C, the background color changes to white and the edges' color changes to red.

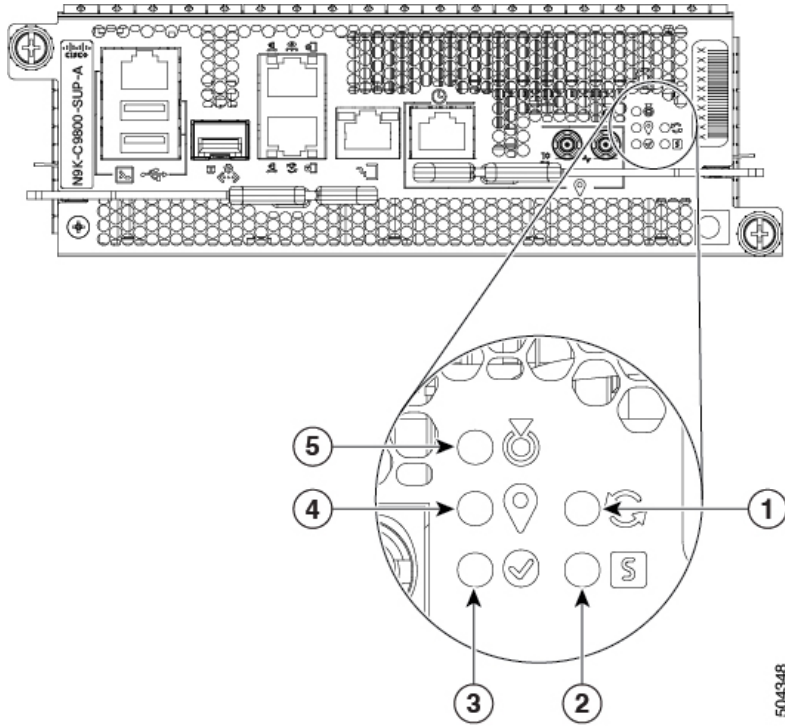
*Figure 3: Temperature Warning Label*



## Supervisor Module LEDs


The Supervisor Module LEDs are located on the front of the module.




Figure 4: Supervisor Module LEDs



|   |              |   |                  |
|---|--------------|---|------------------|
| 1 | SYNC         | 4 | GPS              |
| 2 | STS (Status) | 5 | ATTN (Attention) |
| 3 | Active       |   |                  |

Table 5: Supervisor Module LED Descriptions

| LED   | Color         | Status  |
|---|---------------|---|
| ATTN (Attention)<br> | Flashing blue | The operator has activated this LED to identify this module in the chassis. |
|   | Off           | This module is not being identified.  |

| LED   | Color          | Status   |
|---|----------------|--|
| STS (Status)<br> | Green          | This module is operational with no issues.   |
|   | Flashing green | The auto or manual FPD upgrade in-progress.  |
|   | Flashing amber | The module has minor alarm.  |
|   | Flashing red   | The module has active major or critical alarms.  |
|   | Amber          | The module is in one of the following states: <ul style="list-style-type: none"> <li>• Power cycle</li> <li>• Reload or reimage</li> <li>• Shutdown</li> </ul>   |
|   | Red            | BIOS boot failure. Also, the ATTN LED remains blue.  |
| ACT (Active)  | Green          | The module is in the Active state.   |
|   | Off            | The module is in the Standby state.  |
| GPS<br>        | Green          | The GPS interface is provisioned and frequency, time of day and phase inputs are all operating correctly.  |
|   | Off            | The GPS interface is not provisioned, or the GPS inputs are not working correctly.   |
| SYNC<br>       | Green          | The frequency, time, and phase are synchronized to an external interface. The external interface could be: <ul style="list-style-type: none"> <li>• BITS</li> <li>• GPS</li> <li>• Recovered RX Clock</li> </ul> |
|   | Amber          | The system is running in holdover or free-run mode and it is not synchronized to an external interface.  |
|   | Off            | The centralized frequency or time and phase distribution is not enabled.   |



## Fabric Module LEDs

The fabric modules are located behind the fan trays.



**Note** The fabric modules are located behind the fan tray. Therefore, the fabric module LEDs are seen when the fan tray is removed.


**Table 6: Fabric Module LED Descriptions**

| LED  | Color          | Status   |
|--|----------------|--|
| ATTN<br>(Attention)<br> | Flashing blue  | The operator has activated this LED to identify this module in the chassis.  |
|  | Off            | This module is not being identified.   |
| STS<br>                 | Green          | The fabric module is operational with no issues.   |
|  | Flashing green | Auto or manual FPD upgrade in-progress.  |
|  | Amber          | The module is in one of the following states: <ul style="list-style-type: none"> <li>• Power cycle</li> <li>• Reload or reimage</li> <li>• Shutdown</li> </ul> |
|  | Flashing red   | The fabric module has major or critical alarms.  |
|  | Flashing amber | The module has minor alarm.  |
|  | Off            | No power is going to the fabric card.  |


## Line Card LEDs

The line card has LEDs located on the right of the front panel.

**Table 7: Line Card LED Descriptions**

| LED  | Color         | Status  |
|--|---------------|---|
| ATTN<br>(Attention)<br> | Flashing blue | The operator has activated this LED to identify this module in the chassis. |
|  | Off           | The line card is not enabled.   |



| LED   | Color          | Status   |
|---|----------------|--|
| STS (Status)<br> | Amber          | The module is in one of the following states: <ul style="list-style-type: none"> <li>• Power cycle</li> <li>• Reload or reimage</li> <li>• Shutdown</li> </ul> |
|   | Green          | This module is operational with no issues.   |
|   | Flashing green | The auto or manual FPD upgrade in-progress.  |
|   | Flashing amber | The module has a minor alarm.  |
|   | Flashing red   | The module has active major or critical alarms.  |
|   | Red            | BIOS boot failure. Also, the ATTN LED remains blue.  |
|   | Off            | The module is not enabled.   |

