



Cisco SNS 3500 Series Appliance Overview

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Cisco SNS 3500 Series Appliances

The Cisco SNS 3515 or Cisco SNS 3595 appliance is designed for performance and density over a wide range of business workloads, from web serving to distributed databases.



Note The SNS 3515 and SNS 3595 appliances support only Cisco ISE 2.0.1 or later releases. You cannot install a release earlier than 2.0.1 on the SNS 3515 or SNS 3595 appliance.

Support for UEFI Secure Boot

Cisco SNS hardware appliances support the Unified Extensible Firmware Interface (UEFI) secure boot feature. This feature ensures that only a Cisco-signed ISE image can be installed on the SNS hardware appliances, and prevents installation of any unsigned operating system even with physical access to the device. For example, generic operating systems, such as Red Hat Enterprise Linux or Microsoft Windows cannot boot on this appliance.

LED Indicators on Cisco SNS 3515 and 3595 Appliances

This section describes the front- and rear-panel controls, ports, and LED indicators on the Cisco SNS 3515 and Cisco SNS 3595 appliances.

Cisco SNS-3515 and SNS-3595 Appliances Hardware Specifications

The following table describes the hardware specifications of Cisco SNS-3515 and Cisco SNS-3595 appliances.

Cisco Identity Services Engine Appliance	Hardware Specifications	Diagrams
Cisco SNS-3515-K9	<ul style="list-style-type: none"> • Cisco UCS C220 M4 • Single socket Intel Xeon E5-2620 v3 series CPU @ 2.40GHz, 12 total cores, 6*2 total threads • 16 GB RAM • 1 x 600-GB disk • 6 GbE network interfaces • For physical, environmental, and power specifications, see Server Specifications 	Cisco SNS-3515 or 3595 Appliance Front Panel View, on page 2 Cisco SNS 3515 or SNS 3595 Appliance Back Panel View, on page 5
Cisco SNS-3595-K9	<ul style="list-style-type: none"> • Cisco UCS C220 M4 • Dual socket Intel Xeon E5-2640 v3 series CPU @ 2.60GHz, 16 total cores, 8*2 total threads 64 GB RAM 4 x 600-GB disks RAID 10 6 GbE network interfaces For physical, environmental, and power specifications, see Server Specifications. 	

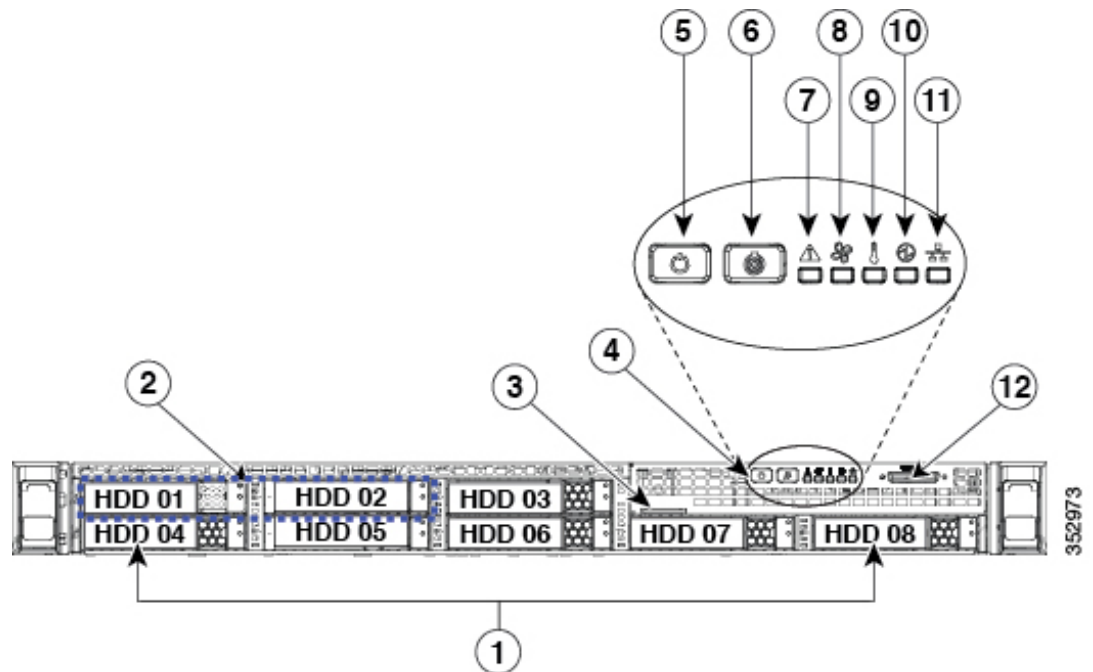


Note You cannot add additional hardware resources like memory, processor, or hard disk to a Cisco SNS 3500 series appliance.

Cisco SNS-3515 or 3595 Appliance Front Panel View

The following figure shows the components of the Cisco SNS-3515 or Cisco SNS-3595 appliance front panel view.

Figure 1: Front Panel LEDs



1	Drive bays 1-8 support SAS/SATA drives	7	System status LED
2	Drive bays 1 and 2 support SAS/SATA and NVMe PCIe solid state drives (SSDs)	8	Fan status LED
3	Pull-out asset tag	9	Temperature status LED
4	Operations panel buttons and LEDs	10	Power supply status LED
5	Power button/power status LED	11	Network link activity LED
6	Unit identification button/LED	12	KVM connector (used with KVM cable that provides two USB 2.0, one VGA, and one serial connector)

The following table describes the LEDs located on the front panel of the Cisco SNS-3515 or Cisco SNS-3595 appliance.

Front Panel LEDs	
Hard drive fault	<ul style="list-style-type: none"> • Off—The hard drive is operating properly. • Amber—Drive fault detected. • Amber, blinking—The device is rebuilding. • Amber, blinking with one-second interval—Drive locate function activated.

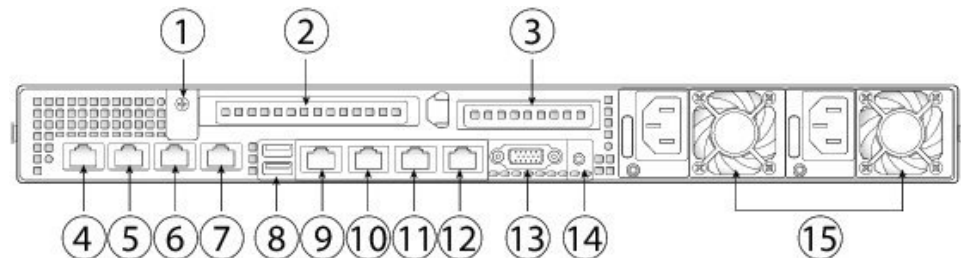
Front Panel LEDs	
Hard drive activity	<ul style="list-style-type: none"> • Off—There is no hard drive in the hard drive tray (no access, no fault). • Green—The hard drive is ready. • Green, blinking—The hard drive is reading or writing data.
Power button/LED	<ul style="list-style-type: none"> • Off—There is no AC power to the server. • Amber—The server is in standby power mode. Power is supplied only to the Cisco IMC and some motherboard functions. • Green—The server is in main power mode. Power is supplied to all server components.
Unit identification	<ul style="list-style-type: none"> • Off—The unit identification function is not in use. • Blue—The unit identification function is activated.
System status	<ul style="list-style-type: none"> • Green—The server is running in normal operating condition. • Green, blinking—The server is performing system initialization and memory check. • Amber, steady—The server is in a degraded operational state. For example: <ul style="list-style-type: none"> • Power supply redundancy is lost. • CPUs are mismatched. • At least one CPU is faulty. • At least one DIMM is faulty. • At least one drive in a RAID configuration failed. • Amber, blinking—The server is in a critical fault state. For example: <ul style="list-style-type: none"> • Boot failed. • Fatal CPU and/or bus error is detected. • Server is in an over-temperature condition.
Fan status	<ul style="list-style-type: none"> • Green—All fan modules are operating properly. • Amber, steady—One or more fan modules breached the critical threshold. • Amber, blinking—One or more fan modules breached the non-recoverable threshold.

Front Panel LEDs	
Temperature status	<ul style="list-style-type: none"> • Green—The server is operating at normal temperature. • Amber, steady—One or more temperature sensors breached the critical threshold. • Amber, blinking—One or more temperature sensors breached the non-recoverable threshold.
Power supply status	<ul style="list-style-type: none"> • Green—All power supplies are operating normally. • Amber, steady—One or more power supplies are in a degraded operational state. • Amber, blinking—One or more power supplies are in a critical fault state.
Network link activity	<ul style="list-style-type: none"> • Off—The Ethernet link is idle. • Green—One or more Ethernet LOM ports are link-active, but there is no activity. • Green, blinking—One or more Ethernet LOM ports are link-active, with activity.

Cisco SNS 3515 or SNS 3595 Appliance Back Panel View

The following figure shows the components of the Cisco SNS-3515 and Cisco 3595 appliance back panel view.

Figure 2: Back Panel LEDs



1	Grounding-lug hole (for DC power supplies)	9	1-GbE Ethernet dedicated management port; used to access CIMC
2	PCIe riser 1/slot 1	10	Serial port (RJ-45 connector)
3	PCIe riser 2/slot 2	11	1-GbE Ethernet port (Eth 0)
4	1-GbE Ethernet port (Eth 2)	12	1-GbE Ethernet port (Eth 1)
5	1-GbE Ethernet port (Eth 3)	13	VGA video port (DB-15)
6	1-GbE Ethernet port (Eth 4)	14	Rear unit identification button/LED

7	1-GbE Ethernet port (Eth 5)	15	Power supplies (up to two, redundant as 1+1)
8	USB 3.0 ports (two)		

The following table describes the LEDs located on the back panel of the Cisco SNS 3515 or Cisco SNS 3595 appliance.

LED Name	State
Optional mLOM 1-GbE SFP+ (there is a single status LED)	<ul style="list-style-type: none"> • Off—No link is present. • Green, steady—Link is active. • Green, blinking—Traffic is present on the active link.
Optional mLOM 1-GbE BASE-T link speed	<ul style="list-style-type: none"> • Off—Link speed is 10 Mbps. • Amber—Link speed is 100 Mbps/1 Gbps. • Green—Link speed is 10 Gbps.
Optional mLOM 1-GbE BASE-T link status	<ul style="list-style-type: none"> • Off—No link is present. • Green—Link is active. • Green, blinking—Traffic is present on the active link.
1-GbE Ethernet dedicated management link speed	<ul style="list-style-type: none"> • Off—Link speed is 10 Mbps. • Amber—Link speed is 100 Mbps. • Green—Link speed is 1 Gbps.
1-GbE Ethernet dedicated management link status	<ul style="list-style-type: none"> • Off—No link is present. • Green—Link is active. • Green, blinking—Traffic is present on the active link.
1-GbE Ethernet link speed	<ul style="list-style-type: none"> • Off—Link speed is 10 Mbps. • Amber—Link speed is 100 Mbps. • Green—Link speed is 1 Gbps.
1-GbE Ethernet link status	<ul style="list-style-type: none"> • Off—No link is present. • Green—Link is active. • Green, blinking—Traffic is present on the active link.
Rear unit identification	<ul style="list-style-type: none"> • Off—The unit identification LED is not in use. • Blue—The unit identification LED is activated.

LED Name	State
Power supply status	AC power supplies: <ul style="list-style-type: none"> • Off—No AC input (12 V main power off, 12 V standby power off). • Green, blinking—12 V main power off; 12 V standby power on. • Green, solid—12 V main power on; 12 V standby power on. • Amber, blinking—Warning detected but 12 V main power on. • Amber, solid—Critical error detected; 12 V main power off.

Internal Diagnostic LEDs

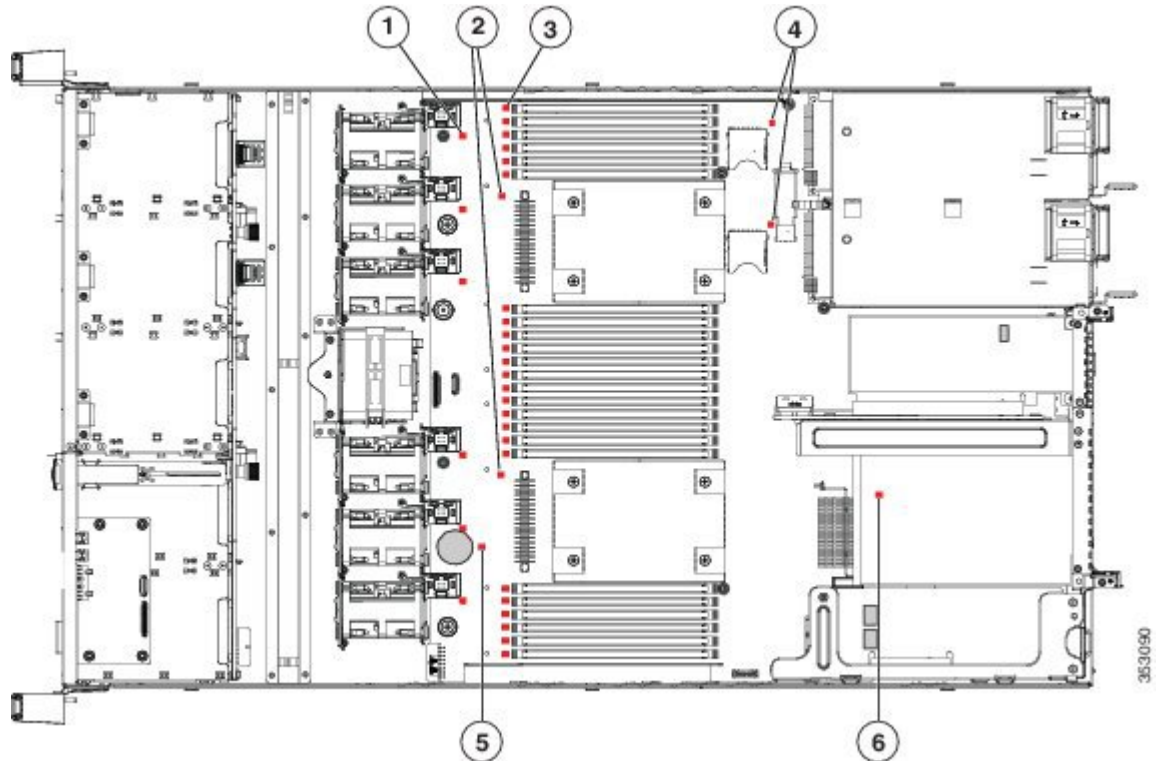
The server has internal fault LEDs for CPUs, DIMMs, fan modules, SD cards, the RTC battery, and the mLOM card. These LEDs are available only when the server is in standby power mode. An LED lights amber to indicate a faulty component.



Note Power must be connected to the server for these LEDs to be operate.

The following figure shows the locations of these internal LEDs in Cisco SNS-3515 or Cisco SNS-3595 appliance.

Figure 3: Cisco SNS-3515 or 3595 Internal Diagnostic LED Locations



The following table describes the callouts in the above figure.

1	Fan module fault LEDs (one next to each fan connector on the motherboard)	4	SD card fault LEDs (one next to each bay)
2	CPU fault LEDs (one in front of each CPU)	5	RTC battery fault LED
3	DIMM fault LEDs (one in front of each DIMM socket on the motherboard)	6	mLOM card fault LED (on motherboard next to mLOM socket)

The following table describes the internal diagnostic LEDs located inside the Cisco SNS-3515 or Cisco SNS-3595 appliance.

LED Name	State
Internal diagnostic LEDs (all)	<ul style="list-style-type: none"> • Off—Component is functioning normally. • Amber—Component has failed.

Regulatory Compliance

For regulatory compliance and safety information, see [Regulatory Compliance and Safety Information for Cisco SNS-3415, Cisco SNS-3495, Cisco SNS-3515, and Cisco SNS-3595 Appliances](#).