



Review the Catalyst Center Appliance Features

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Appliance Hardware Specifications

Cisco supplies Catalyst Center in the form of a rack-mountable, physical appliance. The third-generation Catalyst Center appliance consists of either a Cisco Unified Computing System (UCS) C220 M6 chassis or Cisco UCS C240 M6 chassis. Three versions of the third-generation appliance are available:

- 32-core appliance: Cisco part number DN3-HW-APL
- 56-core appliance: Cisco part number DN3-HW-APL-L
- 80-core appliance: Cisco part number DN3-HW-APL-XL

Click the appropriate link to view the hardware specifications for your third-generation Catalyst Center appliance.



Important The third-generation appliance is only supported by Catalyst Center 2.3.7.5 and later.

32-Core Appliance

The following table summarizes the hardware specifications for the 32-core third-generation Catalyst Center appliance.

Feature	Description
Chassis	One rack-unit (1RU) chassis.
Processors	Two Intel Xeon Gold 6326 processors.
Memory	Eight 32 GB DDR4 3200 MHz registered DIMMs (RDIMMs).

Feature	Description
Storage/Disk Management (RAID)	Cisco RAID Controller with 4GB FBWC: <ul style="list-style-type: none"> • 2 x 960 GB SSD, RAID 1 (slots 1 and 2) • 2 x 1.9 TB SSD, RAID 1 (slots 3 and 4) • 6 x 1.9 TB SSD, RAID 10 (slots 5 through 10)
Network and management I/O	Supported connectors: <ul style="list-style-type: none"> • Two 1-Gbps/10-Gbps/25-Gbps Ethernet ports on the Intel E810-XXVDA2 network adapter • Four 1-Gbps/10-Gbps/25-Gbps Ethernet ports on the Intel E810-XXVDA4 network adapter <p>Note These ports are active only when NIC bonding is enabled on the appliance. For more information, see NIC Bonding Overview.</p> <ul style="list-style-type: none"> • One 1-Gb Ethernet dedicated management port (RJ-45 connector) • Two 1-Gb/10-Gb BASE-T Ethernet LAN ports (RJ-45 connectors) <p>The dual LAN ports can support 10 Gbps, 1 Gbps, 100 Mbps, or 10 Mbps. The LAN ports autonegotiate to the correct link speed based on the link partner capability.</p> <p>The following connectors are available but not typically used in the day-to-day operation of Catalyst Center:</p> <ul style="list-style-type: none"> • One RS-232 serial port (RJ-45 connector) • One VGA video connector port (DB-15 connector) • Two USB 3.0 ports • One front-panel keyboard/video/mouse (KVM) connector that is used with the KVM breakout cable. The breakout cable provides two USB 2.0, one VGA, and one DB-9 serial connector.
Power	Two 2300 W AC power supplies. Redundant as 1 + 1.
Cooling	Eight hot-swappable fan modules for front-to-rear cooling.

Feature	Description
Video	<p>The Cisco Integrated Management Controller (CIMC) provides video using the Matrox G200e video/graphics controller:</p> <ul style="list-style-type: none"> • Integrated 2D graphics core with hardware acceleration • DDR3 memory interface supports up to 512 MB of addressable memory (8 MB is allocated by default to video memory) • Supports display resolutions up to 1920 x 1200 16bpp @ 60Hz • High-speed integrated 24-bit RAMDAC • Single lane PCI-Express host interface running at Gen 2 speed
ACPI	The advanced configuration and power interface (ACPI) 4.0 standard is supported.
Integrated Management Processor	<p>Baseboard Management Controller (BMC) running Cisco Integrated Management Controller (Cisco IMC) firmware.</p> <p>Depending on your CIMC settings, the CIMC can be accessed through the 1GE dedicated management port, the 1GE/10GE LOM ports, or a Cisco virtual interface card (VIC).</p>

56-Core Appliance

The following table summarizes the hardware specifications for the 56-core third-generation Catalyst Center appliance.

Feature	Description
Chassis	One rack-unit (1RU) chassis.
Processors	Two Intel Xeon Gold 6348 processors.
Memory	Twelve 32 GB DDR4 3200 MHz RDIMMs.
Storage/Disk Management (RAID)	<p>Cisco RAID Controller with 4GB FBWC:</p> <ul style="list-style-type: none"> • 2 x 960 GB SSD, RAID 1 (slots 1 and 2) • 2 x 3.8 TB SSD, RAID 1 (slots 3 and 4) • 6 x 3.8 TB SSD, RAID 10 (slots 5 through 10)

Feature	Description
Network and management I/O	<p>Supported connectors:</p> <ul style="list-style-type: none"> • Two 1-Gbps/10-Gbps/25-Gbps Ethernet ports on the Intel E810-XXVDA2 network adapter • Four 1-Gbps/10-Gbps/25-Gbps Ethernet ports on the Intel E810-XXVDA4 network adapter <p>Note These ports are active only when NIC bonding is enabled on the appliance. For more information, see NIC Bonding Overview.</p> <ul style="list-style-type: none"> • One 1-Gb Ethernet dedicated management port (RJ-45 connector) • Two 1-Gb/10-Gb BASE-T Ethernet LAN ports (RJ-45 connectors) <p>The dual LAN ports can support 10 Gbps, 1 Gbps, 100 Mbps, or 10 Mbps. The LAN ports autonegotiate to the correct link speed based on the link partner capability.</p> <p>The following connectors are available but not typically used in the day-to-day operation of Catalyst Center:</p> <ul style="list-style-type: none"> • One RS-232 serial port (RJ-45 connector) • One VGA video connector port (DB-15 connector) • Two USB 3.0 ports • One front-panel keyboard/video/mouse (KVM) connector that is used with the KVM breakout cable. The breakout cable provides two USB 2.0, one VGA, and one DB-9 serial connector.
Power	<p>Two 2300 W AC power supplies.</p> <p>Redundant as 1 + 1.</p>
Cooling	<p>Eight hot-swappable fan modules for front-to-rear cooling.</p>
Video	<p>Cisco IMC provides video using the Matrox G200e video/graphics controller:</p> <ul style="list-style-type: none"> • Integrated 2D graphics core with hardware acceleration • DDR3 memory interface supports up to 512 MB of addressable memory (8 MB is allocated by default to video memory) • Supports display resolutions up to 1920 x 1200 16bpp @ 60Hz • High-speed integrated 24-bit RAMDAC • Single lane PCI-Express host interface running at Gen 2 speed
ACPI	<p>The ACPI 4.0 standard is supported.</p>
Integrated Management Processor	<p>BMC running Cisco IMC firmware.</p> <p>Depending on your CIMC settings, the CIMC can be accessed through the 1GE dedicated management port, the 1GE/10GE LOM ports, or a Cisco VIC.</p>

80-Core Appliance

The following table summarizes the hardware specifications for the 80-core third-generation Catalyst Center appliance.

Feature	Description
Chassis	Two rack-unit (2RU) chassis.
Processors	Two Intel Xeon Platinum 8380 processors.
Memory	Twelve 64 GB DDR4 3200 MHz RDIMMs.
Storage/Disk Management (RAID)	<p>Cisco RAID Controller with 4GB FBWC:</p> <ul style="list-style-type: none"> • 2 x 960 GB SSD, RAID 1 (slots 1 and 2) • 2 x 3.8 TB SSD, RAID 1 (slots 3 and 4) • 8 x 3.8 TB SSD, RAID 10 (slots 5 through 12)
Disk Management (RAID)	<p>Cisco RAID Controller with 4GB FBWC:</p> <ul style="list-style-type: none"> • RAID 1 on slots 1 through 4 • RAID 10 on slots 5 through 12
Network and management I/O	<p>Supported connectors:</p> <ul style="list-style-type: none"> • Two 1-Gbps/10-Gbps/25-Gbps Ethernet ports on the Intel E810-XXVDA2 network adapter • Four 1-Gbps/10-Gbps/25-Gbps Ethernet ports on the Intel E810-XXVDA4 network adapter <p>Note These ports are active only when NIC bonding is enabled on the appliance. For more information, see NIC Bonding Overview.</p> <ul style="list-style-type: none"> • One 1-Gb Ethernet dedicated management port (RJ-45 connector) • Two 1-Gb/10-Gb BASE-T Ethernet LAN ports (RJ-45 connectors) <p>The dual LAN ports can support 10 Gbps, 1 Gbps, 100 Mbps, or 10 Mbps. The LAN ports autonegotiate to the correct link speed based on the link partner capability.</p> <p>The following connectors are available but not typically used in the day-to-day operation of Catalyst Center:</p> <ul style="list-style-type: none"> • One RS-232 serial port (RJ-45 connector) • One VGA video connector port (DB-15 connector) • Two USB 3.0 ports • One front-panel keyboard/video/mouse (KVM) connector that is used with the KVM breakout cable. The breakout cable provides two USB 2.0, one VGA, and one DB-9 serial connector.

Feature	Description
Power	Two 2300 W AC power supplies. Redundant as 1 + 1.
Cooling	Six hot-swappable fan modules for front-to-rear cooling.
Video	Cisco IMC provides video using the Matrox G200e video/graphics controller: <ul style="list-style-type: none"> • Integrated 2D graphics core with hardware acceleration • Embedded DDR memory interface supports up to 512 MB of addressable memory (8 MB is allocated by default to video memory) • Supports display resolutions up to 1920 x 1200 16bpp @ 60Hz • High-speed integrated 24-bit RAMDAC • Single lane PCI-Express host interface running at Gen 1 speed
ACPI	The ACPI 4.0 standard is supported.
Integrated Management Processor	BMC running Cisco IMC firmware. Depending on your CIMC settings, the CIMC can be accessed through the 1GE dedicated management port, the 1GE/10GE LOM ports, or a Cisco VIC.

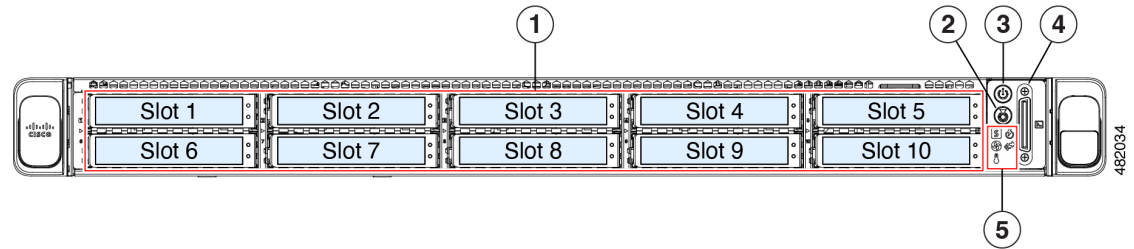
Front and Rear Panels


Click the appropriate link to view a description of the front and rear panels for your third-generation Catalyst Center appliance.


32- and 56-Core Appliances

The following figures and tables describe the front and rear panels of the 32- and 56-core third-generation Catalyst Center appliances.

Figure 1: Front Panel



Callout	Description
1	<p>A total of 10 drives are available on the appliance.</p> <p>32-core appliance:</p> <ul style="list-style-type: none"> • Two 960 GB SSD (in slots 1 and 2) • Eight 1.9 TB SSD (in slots 3 through 10) <p>56-core appliance:</p> <ul style="list-style-type: none"> • Two 960 GB SSD (in slots 1 and 2) • Eight 3.8 TB SSD (in slots 3 through 10) <p>Each installed drive has two LEDs: a fault LED (left) and an activity LED (right).</p> <p>When the drive fault LED is:</p> <ul style="list-style-type: none"> • Off: The drive is operating properly. • Amber: The drive has failed. • Amber, blinking: The drive is rebuilding. <p>When the drive activity LED is:</p> <ul style="list-style-type: none"> • Off: There is no drive in the sled (no access, no fault). • Green: The drive is ready. • Green, blinking: The drive is reading or writing data.
2	<p>Unit identification ():</p> <ul style="list-style-type: none"> • Off—The unit identification function is not in use. • Blue, blinking—The unit identification function is activated.

Callout	Description
3	<p data-bbox="337 289 565 346">Power button ():</p> <ul data-bbox="370 367 1442 535" style="list-style-type: none"><li data-bbox="370 367 836 399">• Off—There is no AC power to the server.<li data-bbox="370 420 1442 478">• Amber—The server is in standby power mode. Power is supplied only to the Cisco IMC and some motherboard functions.<li data-bbox="370 499 1323 535">• Green—The server is in main power mode. Power is supplied to all server components.
4	<p data-bbox="337 573 516 604">KVM connector</p> <p data-bbox="337 625 1425 657">(used with KVM cable that provides one DB-15 VGA, one DB-9 serial, and two USB 2.0 connectors)</p>






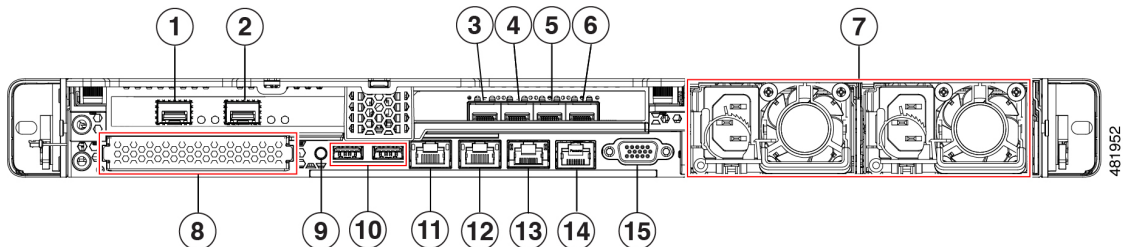
Callout	Description
5	<p>System LED cluster:</p> <ul style="list-style-type: none"> • Fan status ( • Green—All fan modules are operating properly. • Amber, blinking—One or more fan modules breached the non-recoverable threshold. • System health ( • Green—The server is running in normal operating condition. • Green, blinking—The server is performing system initialization and memory check. • Amber, steady—The server is in a degraded operational state (minor fault). • Amber, 2 blinks—There is a major fault with the system board. • Amber, 3 blinks—There is a major fault with the memory DIMMs. • Amber, 4 blinks—There is a major fault with the CPUs. • Power supply status ( • 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 ( • Off—The Ethernet LOM port 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. • Temperature status ( • 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.

Figure 2: Rear Panel



Callout	Description
1, 4	<p>10-Gbps Enterprise Port (Network Adapter 1): This port is identified as Network Adapter 1 in the Maglev Configuration wizard. Connect it to a switch with connections to the Enterprise network.</p> <ul style="list-style-type: none"> • The primary instance (callout 1) is the left port on the Intel E810-XXVDA2 network adapter, in the appliance's PCIe riser 1/slot 1. • The secondary instance (callout 4) is the second port on the Intel E810-XXVDA4 network adapter, in the appliance's PCIe riser 3/slot 3. <p>This port has a link status (ACT) LED and a link speed (LINK) LED.</p> <p>When the link status LED is:</p> <ul style="list-style-type: none"> • Off: No link is present. • Green, blinking: Traffic is present on the active link. • Green: Link is active, but there is no traffic present. <p>When the speed LED is:</p> <ul style="list-style-type: none"> • Off: Link speed is 100 Mbps or less. • Green: Link speed is 10 Gbps. • Amber: Link speed is 1 Gbps. <p>Note Although capable of operating at lower speeds, this port is intended to operate at 10 Gbps only.</p>

Callout	Description
2, 3	<p>10-Gbps Intracluster Port (Network Adapter 2): This port is identified as Network Adapter 2 in the Maglev Configuration wizard. Connect this port to a switch with connections to the other nodes in the cluster.</p> <ul style="list-style-type: none"> • The primary instance (callout 2) is the right port on the Intel E810-XXVDA2 network adapter, in the appliance's PCIe riser 1/slot 1. • The secondary instance (callout 3) is first port on the Intel E810-XXVDA4 network adapter, in the appliance's PCIe riser 3/slot 3. <p>This port has a link status (ACT) LED and a link speed (LINK) LED.</p> <p>When the link status LED is:</p> <ul style="list-style-type: none"> • Off: No link is present. • Green, blinking: Traffic is present on the active link. • Green: Link is active, but there is no traffic present. <p>When the link speed LED is:</p> <ul style="list-style-type: none"> • Off: Link speed is 100 Mbps or less. • Green: Link speed is 10 Gbps. • Amber: Link speed is 1 Gbps. <p>Note Although capable of operating at lower speeds, this port is intended to operate at 10 Gbps only.</p>
5, 12	<p>1-Gbps/10-Gbps Internet Port (Network Adapter 4): This Ethernet port can support 1 Gbps and 10 Gbps, depending on the link partner capability. It is identified as Network Adapter 4 in the Maglev Configuration wizard. This port is optional and is used for connecting to the Internet when it is not possible to do so via the 10-Gbps Enterprise port. Connect to the Internet or a proxy server that has connections to the Internet.</p> <ul style="list-style-type: none"> • The primary instance (callout 5) is labeled 2 on the rear panel. • The secondary instance (callout 12) is the third port on the Intel E810-XXVDA4 network adapter, in the appliance's PCIe riser 3/slot 3. <p>This port has a link status LED and a link speed LED. When the link status LED is:</p> <ul style="list-style-type: none"> • Off: No link is present. • Green, blinking: Traffic is present on the active link. • Green: Link is active, but there is no traffic. <p>When the speed LED is:</p> <ul style="list-style-type: none"> • Off: Link speed is 10 Mbps or less. • Green: Link speed is 1 Gbps. • Amber: Link speed is 100 Mbps.

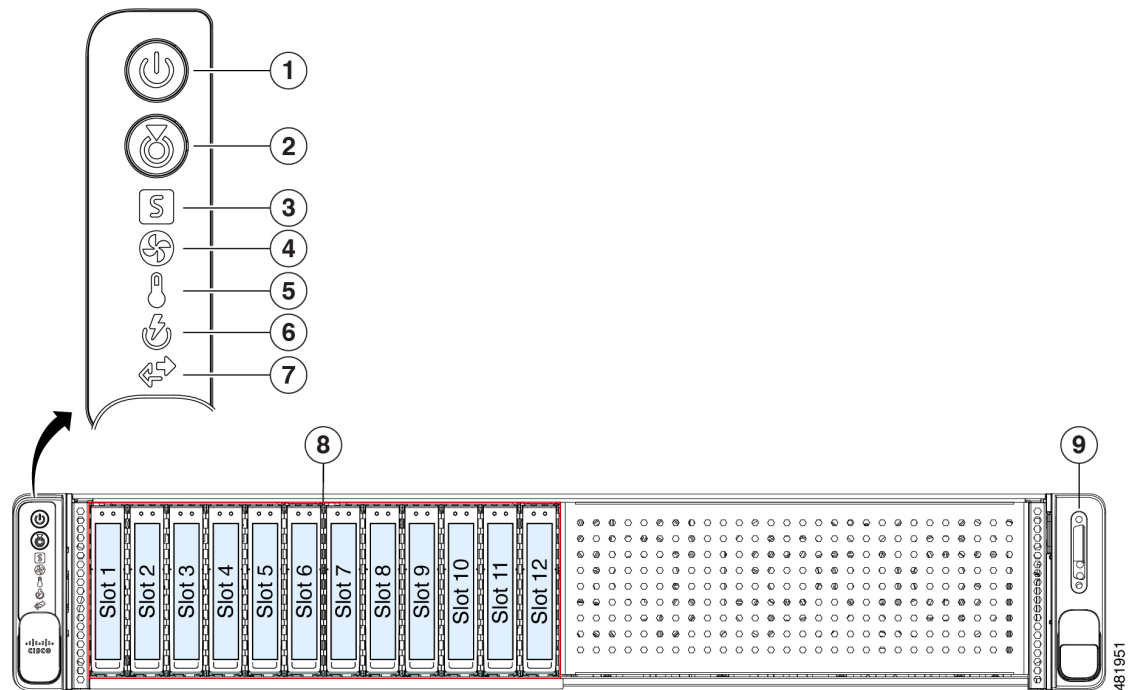
Callout	Description
6, 11	<p>1-Gbps/10-Gbps Management Port (Network Adapter 3): This Ethernet port can support 1 Gbps and 10 Gbps, depending on the link partner capability. It is identified as Network Adapter 3 in the Maglev Configuration wizard. Connect this port to a switch that provides access to your enterprise management network.</p> <ul style="list-style-type: none"> • The primary instance (callout 6) is labeled 1 on the rear panel. • The secondary instance (callout 11) is the fourth port on the Intel E810-XXVDA4 network adapter, in the appliance's PCIe riser 3/slot 3. <p>This port has a link status LED and a link speed LED. When the status LED is:</p> <ul style="list-style-type: none"> • Off: No link is present. • Green, blinking: Traffic is present on the active link. • Green: Link is active, but there is no traffic present. <p>When the speed LED is:</p> <ul style="list-style-type: none"> • Off: Link speed is 10 Mbps or less. • Green: Link speed is 1 Gbps. • Amber: Link speed is 100 Mbps.
7	Power supplies (two, redundant as 1+1)
8	Modular LAN-on-motherboard (mLOM) card bay (x16 PCIe lane)
9	Unit identification button/LED
10	USB 3.0 ports (two)
13	<p>1-Gbps Cisco IMC Port: This is the embedded port to the right of the Internet port. It is assigned an IP address when you enable browser access to the appliance's Cisco IMC GUI (see Enable Browser Access to the Cisco Integrated Management Controller). This port is reserved for out-of-band management of the appliance chassis and software. Connect this port to a switch that provides access to your enterprise management network.</p> <p>This port has a link status LED and a link speed LED. When the link status LED is:</p> <ul style="list-style-type: none"> • Off: No link is present. • Green, blinking: Traffic is present on the active link. • Green: Link is active, but there is no traffic present. <p>When the speed LED is:</p> <ul style="list-style-type: none"> • Off: Link speed is 10 Mbps or less. • Green: Link speed is 1 Gbps. • Amber: Link speed is 100 Mbps.


Callout	Description
14	COM port (RJ-45 connector)
15	VGA video port (DB-15 connector)






80-Core Appliance

The following figures and tables describe the front and rear panels of the 80-core third-generation Catalyst Center appliance.

Figure 3: Front Panel

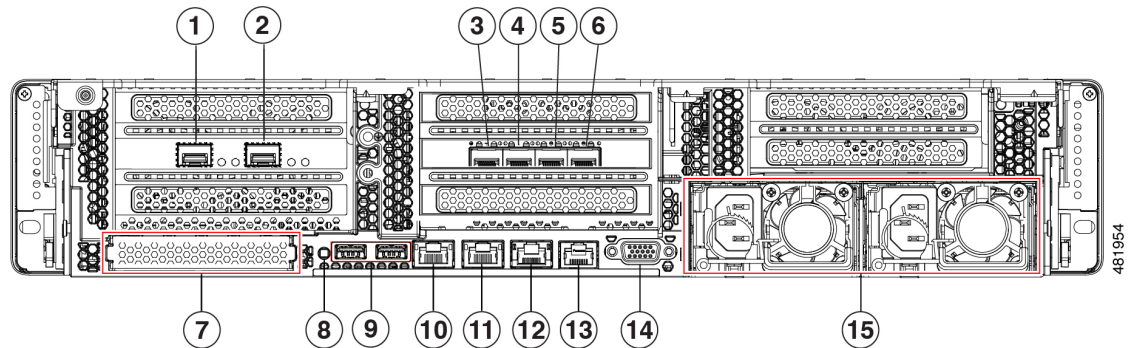


Callout	Description
1	<p>Power button ():</p> <ul style="list-style-type: none"> • Off—There is no AC power to the server. • Amber—The server is in standby power mode. Power is supplied only to the Cisco IMC and some motherboard functions. • Green—The server is in main power mode. Power is supplied to all server components.

Callout	Description
2	Unit identification (): <ul style="list-style-type: none"> • Off—The unit identification function is not in use. • Blue, blinking—The unit identification function is activated.
3	System health (): <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 (minor fault). 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, 2 blinks—There is a major fault with the system board. • Amber, 3 blinks—There is a major fault with the memory DIMMs. • Amber, 4 blinks—There is a major fault with the CPUs.
4	Fan status (): <ul style="list-style-type: none"> • Green—All fan modules are operating properly. • Amber, blinking—One or more fan modules breached the non-recoverable threshold.
5	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.
6	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.

Callout	Description
7	<p>Network link activity (↔):</p> <ul style="list-style-type: none"> • Off—The Ethernet LOM port 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.
8	<p>A total of 12 drives are available on the appliance:</p> <ul style="list-style-type: none"> • Two 960 GB SSD (in slots 1 and 2) • Ten 3.8 TB SSD (in slots 3 through 12) <p>Each installed drive has two LEDs: a fault LED (left) and an activity LED (right).</p> <p>When the drive fault LED is:</p> <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 in the software. <p>When the drive activity LED is:</p> <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.
9	<p>KVM connector</p> <p>Used with KVM cable that provides one DB-15 VGA, one DB-9 serial, and two USB 2.0 connectors</p>

Figure 4: Rear Panel



Callout	Description
1, 4	<p>10-Gbps Enterprise Port (Network Adapter 1): This port is identified as Network Adapter 1 in the Maglev Configuration wizard. Connect it to a switch with connections to the Enterprise network.</p> <ul style="list-style-type: none"> • The primary instance (callout 1) is the left port on the Intel E810-XXVDA2 network adapter, in the appliance's riser 1A/slot 2. • The secondary instance (callout 4) is the second port on the Intel E810-XXVDA4 network adapter, in the appliance's riser 3A/slot 5. <p>This port has a link status (ACT) LED and a link speed (LINK) LED.</p> <p>When the link status LED is:</p> <ul style="list-style-type: none"> • Off: No link is present. • Green, blinking: Traffic is present on the active link. • Green: Link is active, but there is no traffic present. <p>When the speed LED is:</p> <ul style="list-style-type: none"> • Off: Link speed is 100 Mbps or less. • Green: Link speed is 10 Gbps. • Amber: Link speed is 1 Gbps. <p>Note Although capable of operating at lower speeds, this port is intended to operate at 10 Gbps only.</p>
2, 3	<p>10-Gbps Intracluster Port (Network Adapter 2): This port is identified as Network Adapter 2 in the Maglev Configuration wizard. Connect this port to a switch with connections to the other nodes in the cluster.</p> <ul style="list-style-type: none"> • The primary instance (callout 2) is the right port on the Intel E810-XXVDA2 network adapter, in the appliance's riser 1A/slot 2. • The secondary instance (callout 3) is the first port on the Intel E810-XXVDA4 network adapter, in the appliance's riser 3A/slot 5. <p>This port has a link status (ACT) LED and a link speed (LINK) LED.</p> <p>When the link status LED is:</p> <ul style="list-style-type: none"> • Off: No link is present. • Green, blinking: Traffic is present on the active link. • Green: Link is active, but there is no traffic present. <p>When the link speed LED is:</p> <ul style="list-style-type: none"> • Off: Link speed is 100 Mbps or less. • Green: Link speed is 10 Gbps. • Amber: Link speed is 1 Gbps. <p>Note Although capable of operating at lower speeds, this port is intended to operate at 10 Gbps only.</p>

Callout	Description
5, 11	<p>1-Gbps/10-Gbps Internet Port (Network Adapter 4): This Ethernet port can support 1 Gbps and 10 Gbps, depending on the link partner capability. It is identified as Network Adapter 4 in the Maglev Configuration wizard. This port is optional and is used for connecting to the Internet when it is not possible to do so via the 10-Gbps Enterprise port. Connect to the Internet or a proxy server that has connections to the Internet.</p> <ul style="list-style-type: none"> • The primary instance (callout 11) is on the rear panel, between the Management and Cisco IMC ports. • The secondary instance (callout 5) is the third port on the Intel E810-XXVDA4 network adapter, in the appliance's riser 3A/slot 5. <p>This port has a link status LED and a link speed LED. When the link status LED is:</p> <ul style="list-style-type: none"> • Off: No link is present. • Green, blinking: Traffic is present on the active link. • Green: Link is active, but there is no traffic. <p>When the speed LED is:</p> <ul style="list-style-type: none"> • Off: Link speed is 10 Mbps or less. • Green: Link speed is 1 Gbps. • Amber: Link speed is 100 Mbps.
6, 10	<p>1-Gbps/10-Gbps Management Port (Network Adapter 3): This Ethernet port can support 1 Gbps and 10 Gbps, depending on the link partner capability. It is identified as Network Adapter 3 in the Maglev Configuration wizard. Connect this port to a switch that provides access to your enterprise management network.</p> <ul style="list-style-type: none"> • The primary instance (callout 10) is on the rear panel, to the right of the second USB port. • The secondary instance (callout 6) is the fourth port on the Intel E810-XXVDA4 network adapter, in the appliance's riser 3A/slot 5. <p>This port has a link status LED and a link speed LED. When the status LED is:</p> <ul style="list-style-type: none"> • Off: No link is present. • Green, blinking: Traffic is present on the active link. • Green: Link is active, but there is no traffic present. <p>When the speed LED is:</p> <ul style="list-style-type: none"> • Off: Link speed is 10 Mbps or less. • Green: Link speed is 1 Gbps. • Amber: Link speed is 100 Mbps.
7	Modular LAN-on-motherboard (mLOM) card bay (x16 PCIe lane)
8	Unit identification button/LED

Callout	Description
9	USB 3.0 ports (two)
12	<p>1-Gbps Cisco IMC Port: This is the embedded port to the right of the Internet port. It is assigned an IP address when you enable browser access to the appliance's Cisco IMC GUI (see Enable Browser Access to the Cisco Integrated Management Controller). This port is reserved for out-of-band management of the appliance chassis and software. Connect this port to a switch that provides access to your enterprise management network.</p> <p>This port has a link status LED and a link speed LED. When the link status LED is:</p> <ul style="list-style-type: none"> • Off: No link is present. • Green, blinking: Traffic is present on the active link. • Green: Link is active, but there is no traffic present. <p>When the speed LED is:</p> <ul style="list-style-type: none"> • Off: Link speed is 10 Mbps or less. • Green: Link speed is 1 Gbps. • Amber: Link speed is 100 Mbps.
13	COM port (RJ-45 connector)
14	VGA video port (DB-15 connector)
15	Power supplies (two, redundant as 1+1)

Physical Specifications

Click the appropriate link to view the physical specifications for your third-generation Catalyst Center appliance.

32- and 56-Core Appliances

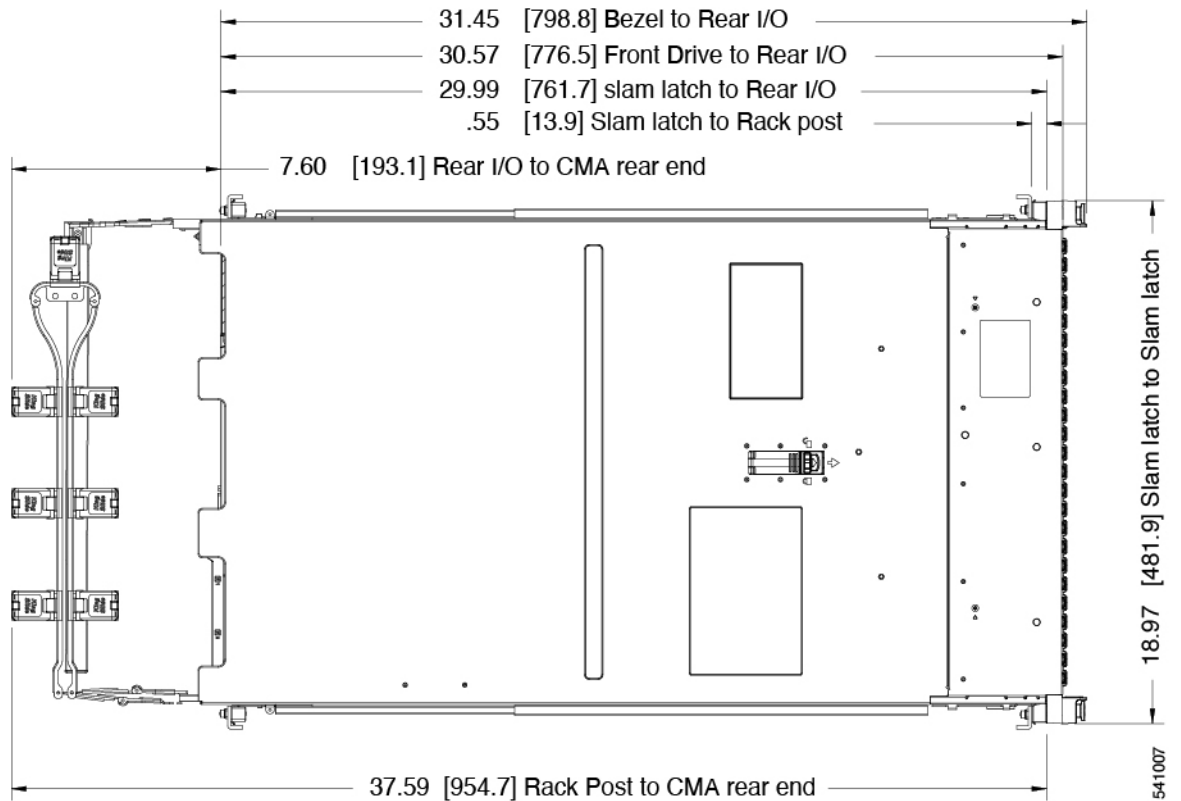
The following table lists the physical specifications for the 32- and 56-core third-generation Catalyst Center appliances.

Description	Specification
Height	1.7 in. (43.2 mm)
Width	16.9 in. (429.0 mm)
Depth (length)	Server only: 30 in. (762 mm) Server with slide rail: 31.5 in (800.1 mm)

Weight	<ul style="list-style-type: none"> • Maximum, fully configured with rail kit: 42.432 lb (19.25 kg) • Maximum, not configured, no rail kit: 22.32 lb (10.13 kg)
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80-Core Appliance

The following figure shows the height, width, and depth of the chassis as measured to different locations.



The following table lists additional physical specifications for appliance.

Description	Specification
Server weight	<ul style="list-style-type: none"> • SFF 12-drive server: <ul style="list-style-type: none"> • Maximum, fully configured with rail kit: 49.2 lb (20.28 kg) • Minimum, empty chassis, no rail kit: 35.7 lb (16.2 kg) • SFF 24-drive server: <ul style="list-style-type: none"> • Maximum, fully configured with rail kit: 61.7 lb (26.67 kg) • Minimum, empty chassis, no rail kit: 33.14 lb (15.03 kg) • LFF 12-drive server: <ul style="list-style-type: none"> • Maximum, fully configured with rail kit: 66.75 lb (28.0 kg) • Minimum, empty chassis, no rail kit: 39.13 lb (17.75 kg)
Front Clearance	3 in. (76 mm)
Side Clearance	1 in. (25 mm)
Rear Clearance	6 in. (152 mm)

Environmental Specifications

The following table lists the environmental specifications for the 32-, 56-, and 80-core third-generation Catalyst Center appliances.

Table 1: Environmental Specifications

Description	Specification
Temperature, Operating	<p>Dry bulb temperature of 10°C to 35°C (50°F to 95°F)</p> <p>Maximum temperature change of 20°C (36°F) per hour (a temperature change within a specified period of time and not a rate of change)</p> <p>Humidity condition: Uncontrolled, not to exceed 50% RH starting condition</p> <p>Derate the maximum temperature by 1°C (33.8°F) per every 305 meters of altitude above 900m</p>

Temperature, Extended Operating	5°C to 40°C (41°F to 104°F) with no direct sunlight Humidity condition: Uncontrolled, not to exceed 50% RH starting condition Derate the maximum temperature by 1°C (33.8°F) per every 305 meters of altitude above 900m
Temperature, non-operating (when the server is stored or transported)	Dry bulb temperature of 40 °C to 65 °C (-40°F to 149 °F)
Humidity (RH), operating	10% to 90% and 28°C (82.4°F) maximum dew-point temperature, non-condensing environment Minimum to be higher (more moisture) of -12 °C (10.4 °F) dew point or 8% relative humidity Maximum to be 24 °C (75.2 °F) dew point or 90% relative humidity
Humidity (RH), non-operating (when the server is stored or transported)	5% to 93% relative humidity, non-condensing, with a maximum wet bulb temperature of 28 °C across the 20 °C to 40 °C dry bulb range.
Altitude, operating	A maximum elevation of 3050 meters (10,006 feet)
Altitude, non-operating (when the server is stored or transported)	An elevation of 0 to 12,000 meters (39,370 feet)
Maximum Operating Duration	Unlimited
Sound power level Measure A-weighted per ISO7779 LwAd (Bels) Operation at 73°F (23°C)	5.5
Sound pressure level Measure A-weighted per ISO7779 LpAm (dBA) Operation at 73°F (23°C)	40

Power Supply Specifications

The specifications for the power supplies provided with the Catalyst Center appliance are listed in the following topics. All versions of the third-generation appliance ship with two 2300 W power supplies (Cisco part number UCSC-PSU1-2300W).

Click the appropriate link to view the power supply specifications for your appliance.

**Note**

- You can get specific power information for the exact configuration of your appliance by using the Cisco UCS Power Calculator: <http://ucspowercalc.cisco.com>.
- For the 80PLUS platinum certification documented in the following topics, you can find test results at <https://www.clearexult.com/80plus/>.

32- and 56-Core Appliances

Parameter	Specification			
Input Connector	IEC320 C20			
Input Voltage Range (V rms)	100 to 240			
Maximum Allowable Input Voltage Range (V rms)	90 to 264			
Frequency Range (Hz)	50 to 60			
Maximum Allowable Frequency Range (Hz)	47 to 63			
Maximum Rated Output (W) Limited to 800W when operating at low-line input voltage, 100-127 V	2300			
Maximum Rated Standby Output (W)	36			
Nominal Input Voltage (V rms)	100	120	208	230
Nominal Input Current (A rms)	13	11	12	10.8
Maximum Input at Nominal Input Voltage (W)	1338	1330	2490	2480
Maximum Input at Nominal Input Voltage (VA)	1351	1343	2515	2505
Maximum Rated Efficiency (%) Minimum rating required to achieve 80PLUS platinum certification.	92	92	93	93
Maximum Rated Power Factor Minimum rating required to achieve 80PLUS platinum certification.	0.99	0.99	0.97	0.97
Maximum Inrush Current (peak A)	30			
Maximum Inrush Current (ms)	0.2			
Maximum Ride-Through Time Time output voltage remains within regulation limits at 100% load, during input voltage dropout	12			

80-Core Appliance

Parameter	Specification			
Input Connector	IEC320 C20			
Input Voltage Range (V rms)	100 to 240			
Maximum Allowable Input Voltage Range (V rms)	90 to 264			
Frequency Range (Hz)	50 to 60			
Maximum Allowable Frequency Range (Hz)	47 to 63			
Maximum Rated Output (W) Limited to 800W when operating at low-line input voltage, 100-127 V	2300			
Maximum Rated Standby Output (W)	36			
Nominal Input Voltage (V rms)	100	120	208	230
Nominal Input Current (A rms)	13	11	12	10.8
Maximum Input at Nominal Input Voltage (W)	1338	1330	2490	2480
Maximum Input at Nominal Input Voltage (VA)	1351	1343	2515	2505
Maximum Rated Efficiency (%) Minimum rating required to achieve 80PLUS platinum certification.	92	92	93	93
Maximum Rated Power Factor Minimum rating required to achieve 80PLUS platinum certification.	0.99	0.99	0.97	0.97
Maximum Inrush Current (peak A)	30			
Maximum Inrush Current (ms)	0.2			
Maximum Ride-Through Time Time output voltage remains within regulation limits at 100% load, during input voltage dropout	12			

