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Data Sheet

Cisco Catalyst 9200 Series switches

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Extend intent-based networking everywhere

Cisco[®] Catalyst[®] 9200 Series switches extend the power of intent-based networking and Catalyst 9000 hardware and software innovation to a broader set of deployments. With its family pedigree, **Catalyst 9200 Series switches offer simplicity without compromise – it is secure, always on, and IT simplified.**

As foundational building blocks for the Cisco Digital Network Architecture, Catalyst 9200 Series switches help customers simplify complexity, optimize IT, and reduce operational costs by leveraging intelligence, automation and human expertise that no other vendor can deliver regardless of where you are in the intent-based networking journey.

Catalyst 9200 Series switches provide security features that protect the integrity of the hardware as well as the software and all data that flows through the switch. It provides resiliency that keeps your business up and running seamlessly. Combine that with open APIs of Cisco IOS XE and programmability of the UADP ASIC technology, Catalyst 9200 Series switches give you what you need now with investment protection on future innovations.

With full PoE+ capability, power and fan redundancy, stacking bandwidth up to 160 Gbps, modular uplinks, Layer 3 feature support, and cold patching, Catalyst 9200 Series switches are the industry's unparalleled solution with differentiated resiliency and progressive architecture for cost-effective branch-office access.

Product overview

Product highlights

- Up to 48 ports of full Power over Ethernet Plus (PoE+) capability
- · Resiliency with Field-Replaceable Units (FRU) and redundant power supply, fans, and modular uplinks
- Flexible downlink options with data or PoE+
- Operational efficiency with optional backplane stacking, supporting stacking bandwidth up to 160 Gbps
- . UADP 2.0 Mini with integrated CPU offers customers optimized scale with better cost structure
- Enhanced security with AES-128 MACsec encryption, policy-based segmentation, and trustworthy systems
- · Layer 3 capabilities, including OSPF, EIGRP, ISIS, RIP, and routed access
- Advanced network monitoring using Full Flexible NetFlow
- Cisco Software-Defined Access (SD-Access):
 - Simplified operations and deployment with policy-based automation from edge to cloud managed with
 Cisco Identity Services Engine (ISE)
 - Network assurance and improved resolution time through Cisco DNA Center[™]
- Plug and Play (PnP) enabled: A simple, secure, unified, and integrated offering to ease new branch or campus device rollouts or updates to an existing network
- Cisco IOS XE: A Common Licensing based operating system for the enterprise Cisco Catalyst 9000 product family with support for model-driven programmability and streaming telemetry
- ASIC with programmable pipeline and micro-engine capabilities, along with template-based, configurable allocation of Layer 2 and Layer 3 forwarding, Access Control Lists (ACLs), and Quality of Service (QoS) entries

Platform details

Switch models and configurations

Models	FRU Power Supply	FRU Fans	Modular Uplinks	Stacking Bandwidth Support	SD-Access Support
Modular uplink models (C9200 SKUs)	1	1	1	160 Gbps	Yes (4 Virtual Networks)
Fixed uplink Models (C9200L SKUs)	✓	X	x	80 Gbps	Limited (1 Virtual Network)

The Cisco Catalyst 9200 Series is made up of four modular (C9200 SKUs) and eight fixed (C9200L SKUs) switch models.

Figure 1. Cisco Catalyst 9200 Series switches



 Table 1.
 Cisco Catalyst 9200 Series Switch configurations

Switch model	Downlinks total 10/100/1000 or PoE+ copper ports	Uplink configuration	Default primary AC power supply	Fans	
Modular uplink models					
C9200-24T	24 ports data	Modular uplink options	PWR-C5-125WAC	FRU redundant	
C9200-24P	24 ports full PoE+	Modular uplink options	PWR-C5-600WAC	FRU redundant	
C9200-48T	48 ports data	Modular uplink options	PWR-C5-125WAC	FRU redundant	
C9200-48P	48 ports full PoE+	Modular uplink options	PWR-C5-1KWAC	FRU redundant	
Fixed uplink models	Fixed uplink models				
C9200L-24T-4G	24 ports data	4x 1G fixed uplinks	PWR-C5-125WAC	Fixed redundant	
C9200L-24P-4G	24 ports full PoE+	4x 1G fixed uplinks	PWR-C5-600WAC	Fixed redundant	
C9200L-48T-4G	48 ports data	4x 1G fixed uplinks	PWR-C5-125WAC	Fixed redundant	
C9200L-48P-4G	48 ports full POE+	4x 1G fixed uplinks	PWR-C5-1KWAC	Fixed redundant	
C9200L-24T-4X	24 ports data	4x 10G fixed uplinks	PWR-C5-125WAC	Fixed redundant	
C9200L-24P-4X	24 ports full PoE+	4x 10G fixed uplinks	PWR-C5-600WAC	Fixed redundant	
C9200L-48T-4X	48 ports data	4x 10G fixed uplinks	PWR-C5-125WAC	Fixed redundant	
C9200L-48P-4X	48 ports full PoE+	4x 10G fixed uplinks	PWR-C5-1KWAC	Fixed redundant	

Network modules

Cisco Catalyst 9200 Series switches come with modular or fixed uplinks as indicated in Table 1. With modular SKUs, the field-replaceable network modules provide infrastructure investment protection by allowing a nondisruptive migration from 1G to 10G and beyond. When you purchase the switch, you can choose from the network modules described in Table 2.

Figure 2. Cisco Catalyst 9200 Series switch network modules



Table 2. Network module part numbers and descriptions

Network module	Description
C9200-NM-4G	4x 1G network module
C9200-NM-4X	4x 1G/10G network module
C9200-NM-BLANK	No network module

For additional details, please read our FAQ:

https://www.cisco.com/c/dam/en/us/products/collateral/switches/catalyst-9000/nb-09-cat-9k-faq-cte-en.pdf.

Platform resiliency

Power supplies

Cisco Catalyst 9200 Series switches support dual field-replaceable power supplies (Figure 3). Each switch ships with one default power supply, and a second identical power supply can be purchased with the initial order or can be added at a later time. The second power supply can provide redundancy or additional power to PoE+ ports as needed.

Intelligent PoE+

• IEEE 802.3at PoE+ (up to 30W per port) is supported on Cisco Catalyst 9200 Series switches to lower the total cost of ownership for deployments that incorporate Cisco IP phones, Cisco Aironet[®] wireless access points, or other standards-compliant PoE+ end devices. PoE+ removes the need to supply wall power to PoE-enabled devices and eliminates the cost of adding electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments. With Cisco Catalyst 9200 Series switches, PoE+ power allocation is dynamic, and power mapping scales up to a maximum of 1440W of PoE+ power.

- Perpetual PoE is supported on Cisco Catalyst 9200 Series switches, and maintains the PoE+ power during
 a switch reload. This is important for critical endpoints such as medical devices and for Internet of Things
 (IoT) endpoints such as PoE-powered lights, so that there is no disruption during a switch reboot.
- Fast PoE: When power is restored to a switch, Fast PoE starts delivering power to endpoints without waiting for the operating system to fully load, thereby speeding up the time for the endpoint to start up.

Figure 3. Cisco Catalyst 9200 Series switch dual redundant power supplies



Table 3 lists the PoE+ power availability for each model.

Table 3. PoE+ Power with primary and secondary power supplies

Model	Default primary power supply	Available PoE power with single primary power supply only	Optional secondary power supply	Available PoE power with additional secondary power supply
C9200-24P	PWR-C6-600WAC	370W	PWR-C6-600WAC	740W
C9200-48P	PWR-C6-1KWAC	740W	PWR-C6-1KWAC	1440W
C9200L-24P-4G	PWR-C5-600WAC	370W	PWR-C5-600WAC	740W
C9200L-24P-4X	PWR-C5-600WAC	370W	PWR-C5-600WAC	740W
C9200L-48P-4G	PWR-C5-1KWAC	740W	PWR-C5-1KWAC	1440W
C9200L-48P-4X	PWR-C5-1KWAC	740W	PWR-C5-1KWAC	1440W

Limited by port number and port rating (for example, 24 PoE+ 30W ports = 720W)

Stacking

Cisco Catalyst 9200 Series switch models are designed for stacking switches as a single virtual switch, enabling customers to have a single management plane and control plane for up to 384 access ports.

Table 4 lists the supported stacking options.

Table 4. Supported stacking options

Model	Stacking support	Stacking bandwidth support	Stacking hardware	Number of members	Supported stack members
Modular models (C9200 SKUs)	StackWise [®] -160	160 Gbps	C9200-STACK-KIT	8	Other C9200 models with same license level
Fixed models (C9200L SKUs)	StackWise-80	80 Gbps	C9200L-STACK-KIT	8	Other C9200L models with same license level

Mixed stacking is **not supported**. You cannot stack fixed (C9200L SKUs) with modular (C9200 SKUs) models, or other Catalyst switches, e.g. Cisco Catalyst 2960-X and 2960-XR Series.

The optional StackWise-160 and StackWise-80 kits consist of two adapters and a stacking cable. The default stacking cable is 0.5 m, but options of 1 m and 3 m are also available. Table 5 lists the stacking accessories.

 Table 5.
 Stacking accessories

Model	Description
C9200-STACK-KIT	Stack kit for C9200 SKUs only: Two data stack adapters and one data stack cable
C9200L-STACK-KIT	Stack kit for C9200L SKUs only: Two data stack adapters and one data stack cable
STACK-T4-50CM	Data stack 50 cm cable (default cable with Stack Kit)
STACK-T4-1M	Data stack 1 m cable
STACK T4-3M	Data stack 3 m cable

Figure 4. Cisco Catalyst 9200 Series switch stacked units



Fan

Cisco Catalyst 9200 Series switches also come with dual fans and support redundancy. Cisco Catalyst 9200 Series switches support redundancy with dual fans. On the C9200 SKUs, the fan units are field-replaceable, whereas on the fixed C9200L SKUs, the fan units are fixed. Table 5 lists the fan module part number.

Table 6. Fan modules

Model	Description
C9200-FAN=	Fan module

Performance and scalability

Table 7 lists performance and scalability metrics for Cisco Catalyst 9200 Series switches. Table 8 lists the bandwidth specifications.

 Table 7.
 Performance specifications

Description	C9200-24T, C9200-24P, C9200-48T, C9200-48P	C9200L-24T-4G, C9200L-24P-4G, C9200L-48T-4G, C9200L-48P-4G, C9200L-24T-4X, C9200L-24P-4X C9200L-48T-4X, C9200L-48P-4X
Virtual Networks	4	1
Stacking bandwidth	160 Gbps	80 Gbps
Total number of MAC addresses	32,000	16,000
Total number of IPv4 routes (ARP plus learned routes)	14,000 (10,000 direct routes and 4,000 indirect routes)	11,000 (8,000 direct routes and 3,000 indirect routes)
IPv4 routing entries	4,000	3,000
IPv6 routing entries	2,000	1,500
Multicast routing scale	1,000	1,000
QoS scale entries	1,000	1,000
ACL scale entries	1,600	1,500

Description	C9200-24T, C9200-24P, C9200-48T, C9200-48P	C9200L-24T-4G, C9200L-24P-4G, C9200L-48T-4G, C9200L-48P-4G, C9200L-24T-4X, C9200L-24P-4X C9200L-48T-4X, C9200L-48P-4X
Packet buffer per SKU	6 MB buffers for 24- or 48-port Gigabit Ethernet models	6 MB buffers for 24- or 48-port Gigabit Ethernet models
Flexible NetFlow (FNF) entries	16,000 flows on 24- and 48-port Gigabit Ethernet models	16,000 flows on 24- and 48-port Gigabit Ethernet models
DRAM	4 GB	2 GB
Flash	4 GB	4 GB
VLAN IDs	4096	1024
Total Switched Virtual Interfaces (SVIs)	1000	512
Jumbo frames	9198 bytes	9198 bytes
Wireless bandwidth per switch	Up to 48 Gbps on 24-port and 48-port Gigabit Ethernet model	N/A

 Table 8.
 Bandwidth specifications

Description	Switching capacity	Forwarding rate
C9200-24T	128 Gbps	190.4 Mpps
C9200-24P	128 Gbps	190.4 Mpps
C9200-48T	176 Gbps	261.9 Mpps
C9200-48P	176 Gbps	261.9 Mpps
C9200L-24T-4G	56 Gbps	83.33 Mpps
C9200L-24P-4G	56 Gbps	83.33 Mpps
C9200L-48T-4G	104 Gbps	154.76 Mpps
C9200L-48P-4G	104 Gbps	154.76 Mpps
C9200L-24T-4X	128 Gbps	190.4 Mpps
C9200L-24P-4X	128 Gbps	190.4 Mpps
C9200L-48T-4X	176 Gbps	261.9 Mpps
C9200L-48P-4X	176 Gbps	261.9 Mpps

measured with 64 byte packets

Platform software benefits

Cisco IOS XE

Cisco IOS XE Software opens a completely new paradigm in network configuration, operation, and monitoring through network automation. Cisco's automation solution is open, standards-based, and extensible across the entire lifecycle of a network device. The various automation mechanisms are outlined below.

Automated device provisioning

is the ability to automate the process of upgrading software images and installing configuration files on Cisco Catalyst switches when they are being deployed in the network for the first time. Cisco provides turnkey solutions such as Plug and Play and Preboot Execution Environment (PXE) that enable an effortless and automated deployment.

• API-driven configuration

is available with modern network switches such as Cisco Catalyst 9200 Series switches. It supports a wide range of automation features and provides robust open APIs over NETCONF and RESTCONF using YANG data models for external tools, both off the shelf and custom built, to automatically provision network resources.

• Granular visibility

enables model-driven telemetry to stream data from a switch to a destination. The data to be streamed is identified through subscription to a data set in a YANG model. The subscribed data set is streamed to the destination at specified intervals. Additionally, Cisco IOS XE enables the push model. It provides near-real-time monitoring of the network, leading to quick detection and rectification of failures.

Seamless software upgrades and patching

supports OS resilience. On Cisco Catalyst 9200 Series switches Cisco IOS XE supports cold patching with reboot, which provides fixes for critical bugs and security vulnerabilities between regular maintenance releases. This support lets you add patches without having to wait for the next maintenance release. Cold patching requires the switch to be rebooted after patching to allow the changes to take effect.

Trustworthy solutions built with Cisco Trust Anchor Technologies

provide a highly secure foundation for Cisco products. With Cisco Catalyst 9200 Series switches, these technologies enable hardware and software authenticity assurance for supply chain trust and strong mitigation against man-in-the-middle attacks that compromise software and firmware. Trust Anchor capabilities include image signing, Secure Boot, and Cisco Trust Anchor module.

- High availability: Cisco Catalyst 9200 Series switches support high-availability features, including the following:
 - Cross-stack EtherChannel provides the ability to configure Cisco EtherChannel technology across different members of the stack for high resiliency.
 - IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) provides rapid spanning tree convergence independent of spanning tree timers and also offers the benefit of Layer 2 load balancing and distributed processing.
 - Per-VLAN Rapid Spanning Tree (PVRST+) allows rapid spanning tree (IEEE 802.1w) reconvergence on a per-VLAN spanning tree basis, providing simpler configuration than MSTP. In both MSTP and PVRST+ modes, stacked units behave as a single spanning tree node.
 - Switch-port auto-recovery ("err-disable" recovery) automatically attempts to reactivate a link that is disabled because of a network error.

The Foundation of Software-Defined Access

Secure segmentation with SD-Access

The enterprise network lies at the heart of digital transformation. A network that is open, programmable, integrated, and secure maximizes business agility, allowing new business opportunities to be pursued and captured.

Cisco DNA with SD-Access is the network fabric that powers business. It is an open and extensible software-driven architecture that accelerates and simplifies your enterprise network operations. The programmable architecture frees your IT staff from time-consuming, repetitive network configuration tasks so they can focus instead on innovation that positively transforms your business. SD-Access enables policy-based automation from edge to cloud with foundational capabilities. These include:

- Simplified device deployment
- · Unified management of wired and wireless networks
- · Network virtualization and segmentation
- · Group-based policies
- · Context-based analytics
- **SD-Access:** Cisco Catalyst 9200 Series switches are the entry-level devices for SD-Access, Cisco's lead enterprise architecture, with policy-based automation from edge to cloud.
 - Simplified segmentation and micro-segmentation, with predictable performance and scalability
 - · Automation through Cisco DNA Center
 - Policy handled through the Cisco Identity Services Engine (ISE)
 - Faster launch of new business services and significantly improved issue resolution time

Assurance

- · Full network visibility and monitoring
- End-to-end Quality of Experience (QoE)
- Fast issue resolution and network remediation
- Plug and Play (PnP) enabled: A simple, secure, unified, and integrated offering to ease new branch or campus device rollouts or updates to an existing network

Full Flexible NetFlow

• Full Flexible NetFlow (FNF): Cisco IOS FNF is the next generation in flow visibility technology. It enables optimization of the network infrastructure, reduces operation costs, and improves capacity planning and security incident detection with increased flexibility and scalability. Catalyst 9200 Series switches are capable of up to 16,000 flow entries on 48-port and 24 port models.

QoS

• Superior QoS: Cisco Catalyst 9200 Series switches offer Gigabit Ethernet speeds with intelligent services that keep traffic flowing smoothly, even at 10 times the normal network speed. Industry-leading mechanisms for cross-stack marking, classification, and scheduling deliver superior performance for data, voice, and video traffic at wire speed. Superior QoS includes granular wireless bandwidth management and fair sharing, 802.1p Class of Service (CoS) and Differentiated Services Code Point (DSCP) field classification, Shaped Round Robin (SRR) scheduling, Committed Information Rate (CIR), and eight egress queues per port.

Smart operation

WebUI:

WebUI is an embedded GUI-based device-management tool that provides the ability to provision the device, to simplify device deployment and manageability, and to enhance the user experience. It comes with the default image, so there is no need to enable anything or install any license on the device. You can use WebUI to build configurations, and to monitor and troubleshoot the device without having CLI expertise.

RFID tags:

Cisco Catalyst 9200 Series switches have an embedded RFID tag that facilitates easy asset and inventory management using commercial RFID readers.

• Blue beacon:

Cisco Catalyst 9200 Series switches support both front and back blue beacon LEDs for easy identification of the switch being accessed.

Efficient switch operation*:

Cisco Catalyst 9200 Series switches provide optimum power saving with Energy Efficient Ethernet (EEE) on the RJ-45 ports and low-power operations for industry best-in-class power management and power consumption capabilities. The ports support reduced power modes so that ports not in use can move into a lower power utilization state. Other efficient switch operation features are as follows:

- Per-port power consumption command allows customers to specify a maximum power setting on an individual port.
- Per-port PoE power sensing measures actual power being drawn, enabling more intelligent control of powered devices. The PoE MIB provides proactive visibility into power usage and allows you to set different power-level thresholds.

Bluetooth ready:

Cisco Catalyst 9200 Series switches have hardware support to connect a Bluetooth dongle to your switch, enabling you to use this wireless interface as an IP management port interface. The port can be used for configuration and troubleshooting using WebUI or the Command-Line Interface (CLI), and to transfer images and configurations.

High-performance IP routing

The Cisco Express Forwarding hardware routing architecture delivers extremely high-performance IP routing in Cisco Catalyst 9200 Series switches, based on:

- IP unicast routing protocols (including static, Routing Information Protocol Version 1 [RIPv1], RIPv2, RIPng, and Open Shortest Path First [OSPF], Routed Access) are supported for small network routing applications with the Network Essentials stack. Equal-cost routing facilitates Layer 3 load balancing and redundancy across the stack.
- Advanced IP unicast routing protocols (including Full [OSPF], Enhanced Interior Gateway Routing Protocol
 [EIGRP], and Intermediate System-to-Intermediate System Version 4 [IS-ISv4]) are supported for load
 balancing and for constructing scalable LANs. IPv6 routing (using OSPFv3 and EIGRPv6) is supported in
 hardware for maximum performance.
- Protocol-Independent Multicast (PIM) for IP multicast routing is supported, including PIM sparse mode (PIM SM), and Source-Specific Multicast (SSM).
- IPv6 addressing is supported on interfaces with appropriate show commands for monitoring and troubleshooting.

Software offers

Packaging: Network and Cisco DNA licensing

The Cisco Catalyst 9000 family of switches introduces a new and simplified licensing package in the form of base and add-on licenses.

- The base licensing package includes the Network Essentials and Network Advantage licensing options
 that are tied to the hardware. Between them, the base licensing packages cover switching fundamentals,
 management automation, troubleshooting, and advanced switching features. These base licenses are
 perpetual.
- The add-on licensing package includes the Cisco DNA Premier, DNA Advantage and DNA Essentials options. In addition to on-box capabilities, the features available with this package provide Cisco innovations on the switch, as well as on Cisco DNA Center. The DNA add-on licenses are available as a subscription.

License consumption is easily determined by the package itself. While base licenses are always permanent and without an expiration date, add-on licenses have to be purchased for a 3, 5, or 7 year term (and hence are also known as term-based licenses). Table 9 shows the combinations of base and add-on licenses that must be purchased.

Supported licensing combinations

Table 9. Bandwidth specifications

	Cisco DNA Premier	Cisco DNA Advantage	Cisco DNA Essentials
Network Essentials	No	No	Yes
Network Advantage	Yes	Yes	No

At the time of license renewal, the DNA Essentials license can be purchased to be used with Network Advantage.

Cisco DNA Premier Subscription

Cisco DNA Premier subscriptions offer a flexible way to buy software for the access, WAN, and data center domains. At each stage in the product lifecycle, Cisco DNA Premier subscriptions help make buying, managing, and upgrading your network and infrastructure software easier. Cisco DNA Premier subscriptions provide:

- · Flexible licensing models to smoothly distribute customers' software spending over time
- Investment protection for software purchases through software services—enabled license portability
- Lower cost of entry with the new Cisco DNA Premier Subscription for Switching model

For ordering information for Cisco DNA Premier Software for Cisco Catalyst 9200 Series switches, go to: https://www.cisco.com/c/en/us/products/software/one-access/switching-part-numbers.html.

Cisco Catalyst 9200 Series switches run on Cisco IOS XE Release 16.9.2 or later. This software release includes all the features listed earlier in the Platform Software Benefits section.

Managing licenses with Smart Accounts: Creating Smart Accounts by using the Cisco Smart Software Manager (Cisco SSM) enables you to order devices and licensing packages and also manage your software licenses from a centralized website. You can set up Cisco SSM to receive daily email alerts and to be notified of expiring add-on licenses that you want to renew.

You must order an add-on license in order to purchase a switch. When the license term expires, you can either renew the add-on license to continue using it or deactivate the add-on license and then reload the switch to continue operating with the base license capabilities.

Both the base and add-on licenses are also available for a 90-day evaluation period. An evaluation license is activated temporarily, without purchase. An expired evaluation license cannot be reactivated after reload.

Note: It is not required to deploy Cisco DNA Center, just to use one of the above packages.

Network licensing

Table 10. Network Essentials and Advantage package features

Features on Cisco Catalyst uplink switches	Network Essentials	Network Advantage
Switch fundamentals Layer 2, Routed Access (RIP, EIGRP Stub, OSPF - 1000 routes), PBR, PIM Stub Multicast (1000 routes), PVLAN, VRRP, PBR, CDP, QoS, FHS, 802.1X, MACsec- 128, CoPP, SXP, IP SLA Responder	1	/
Advanced switch capabilities and scale EIGRP, HSRP, IS-IS, BSR, MSDP, IP SLA, OSPF	Х	/
Network segmentation VRF, VXLAN, LISP, SGT	х	✓
Automation NETCONF, RESTCONF, YANG, PnP Agent, PnP	/	✓
Telemetry and visibility Model-driven telemetry, sampled NetFlow, SPAN, RSPAN	1	1
Security MACsec-128	✓	✓

Cisco DNA licensing

 Table 11.
 Cisco DNA Essentials, Advantage, and Premier package features

Features	Cisco DNA Essentials	Cisco DNA Advantage	Cisco DNA Premier
Switch features			
Advanced telemetry and visibility Full Flexible NetFlow, EEM	1	1	1
Cisco DNA Center features			
Day-0 network bring-up automation Cisco Network Plug-and-Play application, network settings, device credentials, LAN automation, host onboarding	1	✓	1
Element management Discovery, inventory, topology, software image, licensing, and configuration management	1	1	1
Element management Patch management	×	1	1
Basic Assurance Health dashboards – Network, Client, Application; switch and wired client health monitoring	1	1	1
SD-Access Policy-based automation and assurance for wired and wireless	×	1	1
Network assurance and analytics Global insights, trends, compliance, custom reports; switch 360, wired client 360; fabric and non-fabric insights; app health, app 360, app performance (loss, latency, jitter)	×	✓	1

Dimensions, eight, acoustic, mean time between failures

Table 12 shows the dimensions, weights, acoustic, and mean time between failures of all models of Cisco Catalyst 9200 Series switches.

Table 12. Model dimensions, weight, and mean time between failures metrics

Platform Physical Specifications										
	Chassis Dimensions		Chassis + FEP + Fan Dimensions (HxWxD)							
Model	Inches	Centimeters	Inches	Centimeters						
C9200-24T	1.73 x 17.5 x 13.8	4.4 x 44.5 x 35.0	1.73 x 17.5 x 15.4	4.4 x 44.5 x 39.1						
C9200-24P	1.73 x 17.5 x 13.8	4.4 x 44.5 x 35.0	1.73 x 17.5 x 15.4	4.4 x 44.5 x 39.1						
C9200-48T	1.73 x 17.5 x 13.8	4.4 x 44.5 x 35.0	1.73 x 17.5 x 15.4	4.4 x 44.5 x 39.1						
C9200-48P	1.73 x 17.5 x 13.8	4.4 x 44.5 x 35.0	1.73 x 17.5 x 15.4	4.4 x 44.5 x 39.1						
C9200L-24T-4G	1.73 x 17.5 x 11.3	4.4 x 44.5 x 28.8	1.73 x 17.5 x 12.9	4.4 x 44.5 x 32.9						
C9200L-24P-4G	1.73 x 17.5 x 11.3	4.4 x 44.5 x 28.8	1.73 x 17.5 x 12.9	4.4 x 44.5 x 32.9						
C9200L-48T-4G	1.73 x 17.5 x 11.3	4.4 x 44.5 x 28.8	1.73 x 17.5 x 12.9	4.4 x 44.5 x 32.9						
C9200L-48P-4G	1.73 x 17.5 x 11.3	4.4 x 44.5 x 28.8	1.73 x 17.5 x 12.9	4.4 x 44.5 x 32.9						
C9200L-24T-4X	1.73 x 17.5 x 11.3	4.4 x 44.5 x 28.8	1.73 x 17.5 x 12.9	4.4 x 44.5 x 32.9						
C9200L-24P-4X	1.73 x 17.5 x 11.3	4.4 x 44.5 x 28.8	1.73 x 17.5 x 12.9	4.4 x 44.5 x 32.9						
C9200L-48T-4X	1.73 x 17.5 x 11.3	4.4 x 44.5 x 28.8	1.73 x 17.5 x 12.9	4.4 x 44.5 x 32.9						
C9200L-48P-4X	1.73 x 17.5 x 11.3	4.4 x 44.5 x 28.8	1.73 x 17.5 x 12.9	4.4 x 44.5 x 32.9						

Model	Pounds	Kilograms
C9200-24T	9.59	5.0
C9200-24P	9.59	5.5
C9200-48T	9.59	5.0
C9200-48P	9.59	5.5
C9200L-24T-4G	9.59	4.35
C9200L-24P-4G	9.59	4.35
C9200L-48T-4G	9.59	4.35
C9200L-48P-4G	9.59	4.35
Mean time between failures (h	ours)	
C9200-24T	587,800	
C9200-24P	422,310	
C9200-48T	571,440	
C9200-48P	375,570	
C9200L-24T-4G	531,030	
C9200L-24P-4G	392,210	
C9200L-48T-4G	508,700	
C9200L-48P-4G	347,760	
C9200L-24T-4X	525,990	
C9200L-24P-4X	390,310	
C9200L-48T-4X	503,400	
C9200L-48P-4X	346,270	
Environmental ranges		
Acoustic noise	With AC power supply (wit	h 24 PoE+ ports loaded):
Measured per ISO 7779 and declared per ISO 9296	• LpA: 42dB typical, 45 d	
Bystander positions	 LwA: 5.3B typical, 5.6E Typical: Noise emission fo 	
operating to an ambient temperature of 25°C	Maximum: Statistical maxi variation in production	11

Connectors

Table 13 shows the supported connectors for Cisco Catalyst 9200 Series switches.

Table 13. Connectors

• 1000BASE-T ports: RJ-45 connectors, 4-pair Cat 5E UTP cabling
• 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Cat 5E UTP cabling
 100BASE-FX, 1000BASE-SX, -LX/LH, -ZX, -BX10, dense wavelength-division multiplexing (DWDM) and Coarse Wavelength-Division Multiplexing (CWDM) SFP transceivers: LC fiber connectors (single-mode or multimode fiber)
10GBASE-SR, LR, LRM (only C9200), ER, ZR, DWDM SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber)
SFP+ connector
Cisco StackWise-160/80 stacking ports: copper-based Cisco StackWise cabling
Ethernet management port: RJ-45 connectors, 4-pair Cat 5 UTP cabling
Management console port: RJ-45-to-DB9 cable for PC connections, USB-C adaptor, USB adaptor
 Internal power supply connector: The internal power supply is an auto-ranging unit. It supports input voltages between 100 and 240 VAC. Use the supplied AC power cord to connect the AC power connector to an AC power outlet.

For the latest Cisco transceiver module compatibility information, refer to https://www.cisco.com/c/en/us/td/docs/interfaces_modules/transceiver_modules/compatibility/matrix/TMG_CM_Tool_User_Manual.html.

Management and standards support

Table 14 shows management and standards support for Cisco Catalyst 9200 Series switches.

 Table 14.
 Management and standards support

Description	Specification							
Management	BRIDGE-MIB	CISCO-NHRP-EXT-MIB						
	CISCO-BRIDGE-EXT-MIB	CISCO-NTP-MIB						
	CISCO-BULK-FILE-MIB	CISCO-PAGP-MIB						
	CISCO-CABLE-DIAG-MIB	CISCO-PORT-SECURITY-MIB						
	CISCO-CALLHOME-MIB	CISCO-PORT-STORM-CONTROL-MIB						
	CISCO-CEF-MIB	CISCO-POWER-ETHERNET-EXT-MIB						
	CISCO-CIRCUIT-INTERFACE-MIB	CISCO-PRIVATE-VLAN-MIB						
	CISCO-CONFIG-COPY-MIB	CISCO-PROCESS-MIB						
	CISCO-CONFIG-MAN-MIB	CISCO-PRODUCTS-MIB						
	CISCO-DEVICE-LOCATION-MIB	CISCO-RF-MIB						
	CISCO-DHCP-SNOOPING-MIB	CISCO-RTP-METRICS-MIB						
	CISCO-EIGRP-MIB	CISCO-RTTMON-ICMP-MIB						
	CISCO-EMBEDDED-EVENT-MGR-MIB	CISCO-STACKWISE-MIB						
	CISCO-ENTITY-FRU-CONTROL-MIB	CISCO-STP-EXTENSIONS-MIB						
	CISCO-ENTITY-SENSOR-MIB	CISCO-SYSLOG-MIB						
	CISCO-ENTITY-VENDORTYPE-OID-MIB	CISCO-TCP-MIB						
	CISCO-ERR-DISABLE-MIB	CISCO-UDLDP-MIB						
	CISCO-FLASH-MIB	CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB						
	CISCO-FLOW-MONITOR-MIB	ENTITY-MIB						
	CISCO-FTP-CLIENT-MIB	HC-ALARM-MIB						
	CISCO-HSRP-EXT-MIB	HC-RMON-MIB						
	CISCO-HSRP-MIB	IEEE8023-LAG-MIB						
	CISCO-IETF-BFD-MIB	IF-MIB						
	CISCO-IETF-PPVPN-MPLS-VPN-MIB	IP-FORWARD-MIB						
	CISCO-IETF-PW-MPLS-MIB	IP-MIB						
	CISCO-IF-EXTENSION-MIB	LLDP-EXT-MED-MIB						
	CISCO-IGMP-FILTER-MIB	LLDP-MIB						
	CISCO-IMAGE-LICENSE-MGMT-MIB	MAU-MIB						
	CISCO-IMAGE-MIB	MPLS-L3VPN-STD-MIB						
	CISCO-IP-CBR-METRICS-MIB	MPLS-LSR-STD-MIB						
	CISCO-IP-STAT-MIB	MPLS-VPN-MIB						
	CISCO-IP-TAP-MIB	OLD-CISCO-CHASSIS-MIB						
	CISCO-IP-URPF-MIB	OLD-CISCO-CPU-MIB						
	CISCO-IPSEC-FLOW-MONITOR-MIB	OLD-CISCO-INTERFACES-MIB						
	CISCO-IPSEC-MIB	OLD-CISCO-IP-MIB						
	CISCO-IPSEC-PROVISIONING-MIB	OLD-CISCO-MEMORY-MIB						
	CISCO-IPSLA-AUTOMEASURE-MIB	OLD-CISCO-SYS-MIB						
	CISCO-IPSLA-ECHO-MIB	OLD-CISCO-TCP-MIB						
	CISCO-IPSLA-JITTER-MIB	OLD-CISCO-TS-MIB						
	CISCO-L2-CONTROL-MIB	POWER-ETHERNET-MIB						
	CISCO-L2L3-INTERFACE-CONFIG-MIB	RFC1213-MIB						
	CISCO-LAG-MIB	RMON-MIB						
	CISCO-LICENSE-MGMT-MIB	RMON2-MIB						
	CISCO-LOCAL-AUTH-USER-MIB	SMON-MIB						

Description	Specification	
	CISCO-MAC-NOTIFICATION-MIB	SNMPv2-MIB
	CISCO-MDI-METRICS-MIB	SONET-MIB
	CISCO-MEDIA-METRICS-MIB	TCP-MIB
	CISCO-MEMORY-POOL-MIB	UDP-MIB
	CISCO-MPLS-LSR-EXT-STD-MIB	
	CISCO-NBAR-PROTOCOL-DISCOVERY-MIB	
Standards	EEE 802.1s	RMON I and II standards
	IEEE 802.1w	SNMPv1, v2c, and v3
	IEEE 802.1x	
	IEEE 802.1x-Rev	
	IEEE 802.3ad	
	IEEE 802.3af	
	IEEE 802.3at	
	IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports	
	IEEE 802.1D Spanning Tree Protocol	
	IEEE 802.1p CoS prioritization	
	IEEE 802.1Q VLAN	
	IEEE 802.3 10BASE-T specification	
	IEEE 802.3u 100BASE-TX specification	
	IEEE 802.3ab 1000BASE-T specification	
	IEEE 802.3z 1000BASE-X specification	
	IEEE 802.3bz 10G BASE-T specification	

Power supply specifications

Table 15 lists the power specifications for Cisco Catalyst 9200 Series switches based on the kind of power supply used.

 Table 15.
 Power supply specifications

Description	Specification					
	PWR-C5-125WAC	PWR-C5-600WAC	PWR-C5-1KWAC			
Power supply rated maximum	125W	600W	1000W			
Total output BTU (note: 1000 BTU/hr = 293W)	426.5 BTU/hr, 125W	2047.3 BTU/hr, 600W	3412 BTU/hr, 1000W			
Input-voltage range and frequency	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz			
Input current	1.6-0.7A	7-2.8A	12-6A			
Output ratings	12V at 10.5A	54V at 11.1A	54V at 16.5A			
Output holdup time	20 ms minimum at 100 VAC	20 ms minimum at 100 VAC	20 ms minimum at 100 VAC			
Power-supply input receptacles	IEC 320-C14 (IEC60320-C14)	IEC 320-C16 (IEC60320-C16)	IEC 320-C16 (IEC60320-C16)			
Power cord rating	10A	15A	15A			
Physical specifications	(H x W x D): 1.58" x 4.0" x 7.6" Weight: 1.5 lb (0.68 kg)	(H x W x D): 1.58" x 4.0" x 7.6" Weight: 1.7 lb (0.77 kg)	(H x W x D): 1.58" x 4.0" x 7.6" Weight: 2 lb (0.9 kg)			

Description	Specification
Operating temperature	Normal operating temperature and altitudes: • -5°C to +45°C, up to 5000 feet (1500m) • -5°C to +40°C, up to 10,000 feet (3000m) * Minimum ambient temperature for cold start is 32°F (0°C) Short-term exceptional conditions: • -5°C to +50°C, up to 5000 feet (1500m) • -5°C to +45°C, up to 10,000 feet (3000m) • -5°C to +45°C, at sea level with single fan failure * Not more than following in one-year period: 96 consecutive hours, or 360 hours total, or 15 occurrences
Storage temperature	-40° to 158°F (-40° to 70°C)
Relative humidity operating and nonoperating noncondensing	5% to 90% noncondensing
Altitude	10,000 ft. (3000 meters), up to 45°C
Mean Time Between Failures (MTBF)	300 khrs
EMI and EMC compliance	FCC Part 15 (CFR 47) Class A ICES-003 Class A EN 55032 Class A CISPR 32 Class A AS/NZS 3548 Class A BSMI Class A VCCI Class A CISPR 35 EN 55024, EN300 386, EN 61000-3-2, EN 61000-3-3 EN 61000-6-1
Safety compliance	UL 60950-1, CAN/CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1, CCC, CE Marking
LED indicators	"AC OK": Input power to the power supply is OK "PS OK": Output power from the power supply is OK

use shielded cables for locations other than telecom centers

Power consumption of standalone 9200 Series switches

Table 16 shows the power consumption of standalone Cisco Catalyst 9200 Series switches based on Alliance for Telecommunications Industry Solutions (ATIS) testing using Internet Mix (IMIX) distribution stream traffic, with input voltage of 115VAC at 60 Hz and no PoE loading. The values given are the maximum possible power consumption numbers under the respective test scenarios.

 Table 16.
 Power consumption of standalone Catalyst 9200 Series switches

					Measured P(W)															
	Half port traffic				Full port traffic					Weighted average Pw	No link	PoE test (no traffic)								
SKU	FEP	Uplink	Input	0.01% / EEE	10%	30%	50%	100%	0.01% / EEE	10%	30%	50%	100%			25%	50%	90%	100%	
C9200-	125	Not	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	
24T	W	/ Installed	Installed	230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		NM-4x1G	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	
			230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	
		NM-	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	
		4x10G	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	

				Measured P(W)															
				Half port	traffic				Full por	t traffic				Weighted average Pw	No link	PoE tes	t (no traffic	c)	
SKU	FEP	Uplink	Input	0.01% / EEE	10%	30%	50%	100%	0.01% / EEE	10%	30%	50%	100%			25%	50%	90%	100%
C9200-	600	Not	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
24P	W	installed	230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		NM-4x1G	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
			230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		NM-	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		4x10G	230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
C9200-	125	Not	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
48T	W	installed	230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		NM-4x1G	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
			230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		NM-	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		4x10G	230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
C9200-	600	Not installed	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
48P	W		230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		NM-4x1G NM- 4x10G	115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
			230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
			115VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
			230VAC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
C9200L	125	Fixed	115VAC	39.28	43.98	44.04	44.08	44.22	38.95	48.47	48.6	48.74	49.00	47.571	39.59	153.06	256.56	423.44	466.34
-24P- 4G	W		230VAC	38.88	43.6	43.66	43.69	43.83	38.57	48.09	48.22	48.35	48.62	47.191	39.2	150.51	252.1	413.89	455.15
C9200L	600	Fixed	115VAC	30.03	32.15	32.17	32.2	32.33	32.03	35.90	35.98	36.06	36.23	35.546	27.39	N/A	N/A	N/A	N/A
-24T- 4G	W		230VAC	29.81	32.26	32.23	32.22	32.35	31.86	35.86	35.94	36.03	36.28	35.502	27.50	N/A	N/A	N/A	N/A
C9200L	125	Fixed	115VAC	42.83	44.15	44.62	44.72	45.39	45.45	51.09	51.52	52.2	53.49	50.758	40.17	144.82	241.99	401.32	445.35
-24P- 4X	w		230VAC	42.36	44.19	44.47	44.61	45.28	44.6	49.33	49.91	50.36	51.51	49.075	39.48	142.32	237.52	392.77	434.06
C9200L	125	Fixed	115VAC	30.99	31.98	32.21	32.43	33.04	33.29	36.62	37.02	37.47	38.6	36.485	27.82	N/A	N/A	N/A	N/A
-24T-	W		230VAC	30.98	32.02	32.24	32.46	33.02	33.24	36.59	36.96	37.41	38.52	36.448	27.90	N/A	N/A	N/A	N/A
4X C9200L	125	Fixed	115VAC	45.07	52.15	52.22	52.28	52.44	44.6	58.59	58.7	58.81	59.1	57.242	45.82	270.96	484.59	842.07	933.03
-48P-	W	rixeu	230VAC	44.55						57.82	57.91					266.35	474.24	814.85	899.58
4G					51.5	51.55	51.6	51.77	44.08			58.04	58.29	56.493	45.17				
C9200L -48T- 4G		Fixed	115VAC 230VAC	33.85	40.11	40.2	40.24	40.34	32.74	46.65	46.88	46.96 47.05	47.33 47.49	45.327 45.495	33.85	N/A N/A	N/A N/A	N/A N/A	N/A N/A
		Fixed																	
C9200L -48P-		rixed	115VAC	53.12	56.89	57.34	57.8	57.81	55.22	63.92	64.86	65.84	68.36	63.494	50.31	262.59	463.36	789.46	872.6
4X			230VAC	52.63	56.37	56.82	57.3	58.47	54.71	63.41	64.32	65.27	67.64	62.963	50.02	258.64	453.81	766.04	843.89
C9200L -48T-		Fixed	115VAC	35.52	42.36	42.9	43.35	43.69	35.06	49.27	50.24	51.19	53.6	48.282	36.08	N/A	N/A	N/A	N/A
4X			230VAC	35.84	42.6	43.09	43.58	44.81	35.27	49.41	50.36	51.33	53.67	48.422	36.38	N/A	N/A	N/A	N/A

Safety and compliance

Table 17 lists the safety and compliance information for Cisco Catalyst 9200 Series switches.

Table 17. Safety and compliance information

Description	Specification
Safety certifications	 IEC 60950-1 UL 60950-1 CAN/CSA C22.2 No. 60950-1 EN 60950-1 AS/NZS 60950.1 Class I Equipment
Electromagnetic emissions certifications	 47 CFR Part 15 CISPR 22 Class A CISPR 32 Class A CNS 13438 EN 300 386° EN 55022 Class A EN 61000-3-2 EN61000-3-3 ICES-003 Class A KN 32 TCVN 7189 Class A V-3 Class A CISPR 24 EN 300 386° EN 55024 KN 35 TCVN 7317
Environmental	Reduction of Hazardous Substances (ROHS) 5

^{*} use shielded cables for locations other than telecom centers

Cisco Enhanced Limited Lifetime Hardware Warranty

Cisco Catalyst 9200 Series switches come with a Cisco Enhanced Limited Lifetime Warranty (E-LLW) that includes next-business-day (NBD) delivery of replacement hardware where available and 90 days of 8x5 Cisco Technical Assistance Center (TAC) support.

Your formal warranty statement, including the warranty applicable to Cisco software, appears in the information packet that accompanies your Cisco product. We encourage you to review the warranty statement shipped with your specific product carefully before use.

Cisco reserves the right to refund the purchase price as its exclusive warranty remedy.

For further information about warranty terms, visit https://www.cisco.com/go/warranty. Table 18 provides information about the E-LLW.

Table 18. E-LLW details

	Cisco E-LLW
Devices covered	Applies to Cisco Catalyst 9200 Series switches.
Warranty duration	As long as the original customer owns the product.
End-of-life policy	In the event of discontinuance of product manufacture, Cisco warranty support is limited to 5 years from the announcement of discontinuance.
Hardware replacement	Cisco or its service center will use commercially reasonable efforts to ship a replacement for NBD delivery, where available. Otherwise, a replacement will be shipped within 10 working days after receipt of the Return Materials Authorization (RMA) request. Actual delivery times might vary depending on customer location.
Effective date	Hardware warranty commences from the date of shipment to customer (and in case of resale by a Cisco reseller, not more than 90 days after original shipment by Cisco).
TAC support	Cisco will provide during business hours, 8 hours per day, 5 days per week, basic configuration, diagnosis, and troubleshooting of device-level problems for up to a 90-day period from the date of shipment of the originally purchased Cisco Catalyst 9200 Series product. This support does not include solution or network-level support beyond the specific device under consideration.
Cisco.com access	Warranty allows guest access only to Cisco.com.

Cisco Services for next-generation Cisco Catalyst switches

Achieve infrastructure excellence faster and with less risk. Cisco Catalyst 9000 Switch Services provide expert guidance to help you successfully deploy, manage and support the Cisco Catalyst 9000 switches. With unmatched networking expertise, best practices and innovative tools, we can help you reduce overall upgrade, refresh, and migration costs as you introduce new hardware, software and protocols into the network. Offering a comprehensive lifecycle of services – from implementation, optimization, technical and managed services – Cisco experts help you minimize disruption and achieve operational excellence to extract maximum value from your DNA-ready infrastructure.

Learn more about Cisco Services for Enterprise Networks

Software policy for Cisco Catalyst 9200 Series switches

Software policy for network stack components

Customers with the Network Essentials Stack and Network Advantage Stack software feature sets are provided with maintenance updates and bug fixes designed to maintain compliance of the software. This includes compliance with published specifications, release notes, and industry standards as long as the original end user continues to own or use the product or up to one year from the end-of-sale date for the product, whichever occurs earlier.

Cisco Embedded Support for Cisco DNA term components

Cisco Embedded Support delivers the right support for Cisco software products and suites. It will keep your business applications performing as expected and protect your investment. Cisco Embedded Support for the DNA Essentials and DNA Advantage term components is included. Cisco Embedded Support provides access to TAC support, major software updates, maintenance and minor software releases, and the Cisco Embedded Support site, for increased productivity with anytime access.

Ordering information

Table 19 lists ordering information for Cisco Catalyst 9200 Series switches. To place an order, visit the Cisco Ordering home page at

https://www.cisco.com/en/US/ordering/or13/or8/order customer help how to order listing.html.

 Table 19.
 Ordering information

Product number Product description C9200-24T-A Catalyst 9200 24-port Data Switch, Network Advantage C9200-24T-E Catalyst 9200 24-port Data Switch, Network Essentials		
C9200-24T-A Catalyst 9200 24-port Data Switch, Network Advantage		
Catalyst 9200 24-port Data Switch, Network Essentials		
Catalyst 9200 24-port PoE+ Switch, Network Advantage		
C9200-24P-E Catalyst 9200 24-port PoE+ Switch. Network Essentials		
Catalyst 9200 48-port Data Switch, Network Advantage		
C9200-48T-E Catalyst 9200 48-port Data Switch, Network Essentials		
Catalyst 9200 48-port PoE+ Switch, Network Advantage		
C9200-48P-E Catalyst 9200 48-port PoE+ Switch, Network Essentials		
C9200L-24T-4G-A Catalyst 9200L 24-port Data 4x1G uplink Switch, Network Advantage		
C9200L-24T-4G-E Catalyst 9200L 24-port Data 4x1G uplink Switch, Network Essentials		
C9200L-24P-4G-A Catalyst 9200L 24-port PoE+ 4x1G uplink Switch, Network Advantage		
C9200L-24P-4G-E Catalyst 9200L 24-port PoE+ 4x1G uplink Switch, Network Essentials		
C9200L-48T-4G-A Catalyst 9200L 48-port Data 4x1G uplink Switch, Network Advantage		
C9200L-48T-4G-E Catalyst 9200L 48-port Data 4x1G uplink Switch, Network Essentials		
C9200L-48P-4G-A Catalyst 9200L48-port PoE+ 4x1G uplink Switch, Network Advantage		
C9200L-48P-4G-E Catalyst 9200L48-port PoE+ 4x1G uplink Switch, Network Essentials		
C9200L-24T-4X-A Catalyst 9200L 24-port Data 4x10G uplink Switch, Network Advantage		
C9200L-24T-4X-E Catalyst 9200L 24-port Data 4x10G uplink Switch, Network Essentials		
C9200L-24P-4X-A Catalyst 9200L 24-port PoE+ 4x10G uplink Switch, Network Advantage		
C9200L-24P-4X-E Catalyst 9200L 24-port PoE+ 4x10G uplink Switch, Network Essentials		
C9200L-48T-4X-A Catalyst 9200L 48-port Data 4x10G uplink Switch, Network Advantage		
C9200L-48T-4X-E Catalyst 9200L 48-port Data 4x10G uplink Switch, Network Essentials		
C9200L-48P-4X-A Catalyst 9200L 48-port PoE+ 4x10G uplink Switch, Network Advantage		
C9200L-48P-4X-E Catalyst 9200L 48-port PoE+ 4x10G uplink Switch, Network Essentials		
Network modules		
Product number Product description		
C9200-NM-4G Catalyst 9200 4 x 1GE Network Module		
C9200-NM-4X Catalyst 9200 4 x 10GE Network Module, spare		
C9200-NM-BLANK Catalyst 9200 BLANK Network Module		
StackWise-80 and StackWise-160 Kit and cables		
Product number Product description		
C9200-STACK-KIT= C9200 Stack Kit Spare		
C9200L-STACK-KIT= C9200L Stack Kit Spare		
STACK-T4-50CM 50CM Type 3 Stacking Cable		
STACK-T4-50CM= 50CM Type 3 Stacking Cable, spare		
STACK-T4-1M 1M Type 3 Stacking Cable		

Switches	
STACK-T4-1M=	1M Type 3 Stacking Cable, spare
STACK-T4-3M	3M Type 3 Stacking Cable
STACK-T4-3M=	3M Type 3 Stacking Cable, spare
Software licenses	
Product number	Product description
C9200-DNA-P-24	C9200 DNA Premier Term, 24-Port: Includes Term Licenses for DNA Advantage, 25 ISE Base & 25 ISE Plus Endpoints, 25 Stealthwatch Flows (including Virtual Flow Collector & Management Console). Requires separate purchase of ISE appliance/ISE VM and DNA Center appliance
C9200-DNA-P-24-3Y	C9200 DNA Premier, 24-port, 3Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200-DNA-P-24-5Y	C9200 DNA Premier, 24-port, 5Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200-DNA-P-24-7Y	C9200 DNA Premier, 24-port, 7Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200-DNA-P-48	C9200 DNA Premier Term, 48-Port: Includes Term Licenses for DNA Advantage, 25 ISE Base & 25 ISE Plus Endpoints, 25 Stealthwatch Flows (including Virtual Flow Collector & Management Console). Requires separate purchase of ISE appliance/ISE VM and DNA Center appliance
C9200-DNA-P-48 -3Y	C9200 DNA Premier, 48-port, 3Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200-DNA-P-48 -5Y	C9200 DNA Premier, 48-port, 5Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200-DNA-P-48 -7Y	C9200 DNA Premier, 48-port, 7Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200-DNA-E-24	C9200 DNA Essentials Term 24-port
C9200-DNA-E-24-3Y	C9200 DNA Essentials, 24-port, 3 Year Term license
C9200-DNA-E-24-5Y	C9200 DNA Essentials, 24-port, 5 Year Term license
C9200-DNA-E-24-7Y	C9200 DNA Essentials, 24-port, 7 Year Term license
C9200-DNA-E-48	C9200 DNA Essentials Term 48-port
C9200-DNA-E-48-3Y	C9200 DNA Essentials, 48-port, 3 Year Term license
C9200-DNA-E-48-5Y	C9200 DNA Essentials, 48-port, 5 Year Term license
C9200-DNA-E-48-7Y	C9200 DNA Essentials, 48-port, 7 Year Term license
C9200-DNA-A-24	C9200 DNA Advantage Term 24-port
C9200-DNA-A-24-3Y	C9200 DNA Advantage, 24-port, 3 Year Term license
C9200-DNA-A-24-5Y	C9200 DNA Advantage, 24-port, 5 Year Term license
C9200-DNA-A-24-7Y	C9200 DNA Advantage, 24-port, 7 Year Term license
C9200-DNA-A-48	C9200 DNA Advantage Term 48-port
C9200-DNA-A-48-3Y	C9200 DNA Advantage, 48-port, 3 Year Term license
C9200-DNA-A-48-5Y	C9200 DNA Advantage, 48-port, 5 Year Term license
C9200-DNA-A-48-7Y	C9200 DNA Advantage, 48-port, 7 Year Term license
C9200L-DNA-P-24	C9200L DNA Premier Term, 24-Port: Includes Term Licenses for DNA Advantage, 25 ISE Base & 25 ISE Plus Endpoints, 25 Stealthwatch Flows (including Virtual Flow Collector & Management Console). Requires separate purchase of ISE appliance/ISE VM and DNA Center appliance
C9200L-DNA-P-24-3Y	C9200L DNA Premier, 24-port, 3Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200L-DNA-P-24-5Y	C9200L DNA Premier, 24-port, 5Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200L-DNA-P-24-7Y	C9200L DNA Premier, 24-port, 7Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200L-DNA-P-48	C9200L DNA Premier Term, 48-Port: Includes Term Licenses for DNA Advantage, 25 ISE Base & 25 ISE Plus Endpoints, 25 Stealthwatch Flows (including Virtual Flow Collector & Management Console). Requires separate purchase of ISE appliance/ISE VM and DNA Center appliance
C9200L-DNA-P-48-3Y	C9200L DNA Premier, 48-port, 3Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200L-DNA-P-48 -5Y	C9200L DNA Premier, 48-port, 5Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200L-DNA-P-48 -7Y	C9200L DNA Premier, 48-port, 7Y Term – DNA, 25 ISE PLS and ISE BASE, 25 SWATCH
C9200L-DNA-E-24	C9200L DNA Essentials Term 24-port
C9200L-DNA-E-24-3Y	C9200L DNA Essentials, 24-port, 3 Year Term license

Switches		
C9200L-DNA-E-24-5Y	C9200L DNA Essentials, 24-port, 5 Year Term license	
C9200L-DNA-E-24-7Y	C9200L DNA Essentials, 24-port, 7 Year Term license	
C9200L-DNA-E-48	C9200L DNA Essentials Term 48-port	
C9200L-DNA-E-48-3Y	C9200L DNA Essentials, 48-port, 3 Year Term license	
C9200L-DNA-E-48-5Y	C9200L DNA Essentials, 48-port, 5 Year Term license	
C9200L-DNA-E-48-7Y	C9200L DNA Essentials, 48-port, 7 Year Term license	
C9200L-DNA-A-24	C9200L DNA Advantage Term 24-port	
C9200L-DNA-A-24-3Y	C9200L DNA Advantage, 24-port, 3 Year Term license	
C9200L-DNA-A-24-5Y	C9200L DNA Advantage, 24-port, 5 Year Term license	
C9200L-DNA-A-24-7Y	C9200L DNA Advantage, 24-port, 7 Year Term license	
C9200L-DNA-A-48	C9200L DNA Advantage Term 48-port	
C9200L-DNA-A-48-3Y	C9200L DNA Advantage, 48-port, 3 Year Term license	
C9200L-DNA-A-48-5Y	C9200L DNA Advantage, 48-port, 5 Year Term license	
C9200L-DNA-A-48-7Y	C9200L DNA Advantage, 48-port, 7 Year Term license	
Power supplies		
Product Number	Product Description	
PWR-C5-125WAC/2=	125WAC power supply spare	
PWR-C5-600WAC/2=	600WAC power supply spare	
PWR-C5-1KWAC/2=	1000WAC power supply spare	
PWR-C5-BLANK=	Blank Module	
Spare power cords		
CAB-TA-NA=	AC power cord for Cisco Catalyst (North America)	
CAB-TA-AP=	AC power cord for Cisco Catalyst (Australia)	
CAB-TA-AR=	AC power cord for Cisco Catalyst (Argentina)	
CAB-TA-SW=	AC power cord for Cisco Catalyst (Switzerland)	
CAB-TA-UK=	AC power cord for Cisco Catalyst (United Kingdom)	
CAB-TA-JP=	AC power cord for Cisco Catalyst (Japan)	
CAB-TA-250VAC-JP=	Japan 250VAC power cord for Cisco Catalyst (Japan)	
CAB-TA-EU=	AC power cord for Cisco Catalyst (Europe)	
CAB-TA-IT=	AC power cord for Cisco Catalyst (Italy)	
CAB-TA-IN=	AC power cord for Cisco Catalyst (India)	
CAB-TA-CN=	AC power cord for Cisco Catalyst (China)	
CAB-TA-DN=	AC power cord for Cisco Catalyst (Denmark)	
CAB-TA-IS=	AC power cord for Cisco Catalyst (Israel)	
CAB-ACBZ-12A=	AC power cord for Cisco Catalyst (Brazil), 12A/125V BR-3-20 plug up to 12A	
CAB-ACBZ-10A=	AC power cord for Cisco Catalyst (Brazil), 10A/250V BR-3-10 plug up to 10A	
CAB-C15-CBN	Cabinet jumper power cord, 250VAC 13A, C14-C15 connectors	

Optics online reference

Cisco Catalyst 9200 Series switches support a wide range of optics. Because the list of supported optics is updated on a regular basis, consult the tables available here for the latest SFP+ and SFP compatibility information: https://www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html.

Cisco Services

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Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.



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