

Cisco Catalyst 9000 Switches Comparison: 9200 vs 9300 vs 9400 vs 9500

Series	9200 See Models List	9200L See Models List	9300 See Models List	9300L See Models List	9400 See Models List	9500 See Models List
Designed to replace	Catalyst 2960X Catalyst 2960XR	Catalyst 2960X Catalyst 2960XR	Catalyst 3850	Catalyst 3850	Catalyst 4500 Catalyst 6500 Catalyst 6800	Catalyst 3850 10G Models (Catalyst 9500 is a New Series with more powerful functions.)
Supported IOS	Network Advantage, Network Essentials	Network Advantage, Network Essentials	Network Advantage, Network Essentials	Network Advantage, Network Essentials	Network Advantage, Network Essentials	Network Advantage, Network Essentials
Network modules options	C9200-NM-4G C9200-NM-4X	Fixed Modules	C9300-NM-4G C9300-NM-8X C9300-NM-2Q C9300-NM-4M C9300-NM-2Y	Fixed Modules	Catalyst 9400 switches are modular switches that need to order modules and cards.	C9500-NM-8X C9500-NM-2Q
Stack Technology	StackWise®-160	StackWise-80	StackWise®-480	StackWise-320	StackWise® Virtual	StackWise® Virtual
Stacking bandwidth	160 Gbps	80 Gbps	480 Gbps	320 Gbps	-	-
Total number of MAC addresses	32,000	16,000	32,000	32,000	Please view its datasheet to learn details: Cisco Catalyst 9400 Switch Datasheet.pdf	Up to 82,000
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)	32,000 (24,000 direct routes and 8000 indirect routes)	32,000 (24,000 direct routes and 8000 indirect routes)		Up to 212,000 indirect + direct Up to 90,000 host/ARP
IPv4 routing entries	4,000	3,000	-	-		-
IPv6 routing entries	2,000	1,500	16,000	16,000		Up to 212,000 indirect + direct Up to 90,000 host
Multicast routing scale	1,000	1,000	8,000	8,000		Up to 32,000
QoS scale entries	1,000	1,000	5,120	5,120		Up to 18000
ACL scale entries	1,600	1,500	5,120	5,120		Up to 27000

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	16 MB buffer for 24- or 48-port Gigabit Ethernet models 32 MB buffer for 24 and 48-port Multigigabit	16 MB buffer for 24 and 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	64,000 flow on 24- and 48-port Gigabit Ethernet models 128,000 flows on 24-port Multigigabit	64,000 flow on 24- and 48-port Gigabit Ethernet models	Up to 512,000
DRAM	4 GB	2 GB	8 GB	8 GB	16 GB
Flash	4 GB	4 GB	16 GB	16 GB	16 GB
VLAN IDs	4096	1024	4094	4094	4094
Total Switched Virtual Interfaces (SVIs)	1000	512	1000	1000	4000
Jumbo frames	9198 bytes	9198 bytes	9198 bytes	9198 bytes	9198 bytes / 9216 bytes
Switching capacity	128 Gbps - 176 Gbps	56 Gbps - 176 Gbps	208 Gbps - 640 Gbps	56 Gbps - 176 Gbps	Up to 6.4-Tbps
Forwarding rate	190.4 Mpps - 261.9 Mpps	83.33 Mpps - 261.9 Mpps	154.76 Mpps - 476.19 Mpps	41.66 Mpps - 130.95 Mpps	Up to 2 Bpps

Datasheet: [Cisco Catalyst 9200 Switch Datasheet](#), [Cisco Catalyst 9300 Series Switches Datasheet](#),
[Cisco Catalyst 9400 Series Switches Datasheet](#), [Cisco Catalyst 9500 Series Switches Datasheet](#).

To order Catalyst 9000 Switches, you can visit: [Cisco Switch Catalyst 9200](#), [Cisco Switch Catalyst 9300](#)
[Cisco Switch Catalyst 9400](#), [Cisco Switch Catalyst 9500](#).

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