



Cisco Catalyst 4900 Series Switches Model Comparison

Table 1 compares the features of the Cisco Catalyst[®] 4948 Switch, Catalyst 4948-10GE, and Catalyst 4900M Switch.

Table 1. Cisco Catalyst 4900 Series Switches Model Comparison

Feature and Description	Cisco [®] Catalyst 4948	Cisco Catalyst 4948 10 Gigabit Ethernet	Cisco Catalyst 4900M
Switching capacity	96 Gbps	136 Gbps	320 Gbps
Throughput	72 million packets per second (mpps)	102 mpps	250 mpps for IPv4 125 mpps for IPv6
Height	1 rack unit (1RU)	1RU	2RU
Modular half-card slots	0	0	2
Maximum 10/100/1000 ports	48	48	40
Maximum 10 Gigabit Ethernet ports	0	2	24
Maximum Gigabit Ethernet (fiber) ports	4	0	32 (TwinGig)
TwinGig Module support	No	No	Yes (half cards only)
Uplink optic types	4 Small Form-Factor Pluggable (SFP) optics	2 X2 (10 Gigabit Ethernet) optics	8 X2 (10 Gigabit Ethernet) optics
Multilayer switching	IP Base and Enterprise services options	IP Base and Enterprise services options	IP Base and Enterprise services options
Shared buffer	16 MB	16 MB	16 MB
Routes	32K	32K	200K IPv4, 128K IPv6
CPU	266 MHz	666 MHz	1.3 GHz
Synchronous dynamic RAM (SDRAM)	256 MB	256 MB	512 MB
Active VLANs	2048	2048	4196
Multicast entries	28,000 (Layer 3) 16,000 (Layer 2)	28,000 (Layer 3) 16,000 (Layer 2)	56,000 for IPv4 28,000 for IPv6
Per VLAN Spanning Tree (PVST) and VLAN IDs	4096	4096	4096
Spanning Tree Protocol instances	1500	1500	3000
Switched virtual interfaces (SVIs)	2000	2000	4000
Security and quality-of-service (QoS) hardware entries	32,000	32,000	128,000
MAC addresses	32,000	55,000	55,000
Switched Port Analyzer (SPAN)	2 ingress and 4 egress	2 ingress and 4 egress	8 ingress and 8 egress
USB port	No	No	Yes
Compact flash memory support	No	No	Yes
System Reset button	No	No	Yes
Minimum software requirement	Cisco IOS [®] Software Release 12.2(20)EWA or later	Cisco IOS Software Release 12.2(25)EWA or later	Cisco IOS Software Release 12.2(44)SG or later

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