C9200L-24PXG-2Y-M

1RU fixed-uplink 24-port PoE+ access switch with 8 Multigigabit ports; 2x 25G SFP28 uplinks, StackWise-80, Meraki cloud management.

Cisco Catalyst 9200L-M - Cloud-Managed Stackable Access Switch (Meraki)

The C9200L-24PXG-2Y-M is a 24-port cloud-managed Catalyst 9200L-M access switch that includes eight Multigigabit ports (100M/1G/2.5G/5G/10G) alongside sixteen 1G PoE+ copper ports and two fixed 25-Gigabit SFP28 uplinks. The SFP28 uplinks give Wi-Fi 6/6E and high-bandwidth campus access deployments headroom for the future. All ports provide IEEE 802.3at PoE+ (up to 30 W). It is managed through the Cisco Meraki Dashboard with optional StackWise-80 hardware stacking, and carries a full lifetime hardware warranty with next-day replacement.

Specification	Value
Form factor	1 RU fixed-uplink, Catalyst 9200L-M (Meraki cloud-managed)
Downlink ports	8x Multigigabit (100M-10G) + 16x 10/100/1000 PoE+ copper
Uplink ports	2x 25G/10G/1G SFP28 (fixed)
Switching capacity	292 Gbps standalone / 372 Gbps with stacking
Forwarding rate	229.16 Mpps standalone / 277 Mpps with stacking
PoE budget	370 W single PSU / 740 W with secondary PSU
Stacking	StackWise-80 (80 Gbps), up to 5 members
DRAM / flash	2 GB / 4 GB
Management	Cisco Meraki Dashboard (cloud)
Warranty	Full lifetime hardware warranty

- 24 1-Gigabit PoE+ ports and four fixed 1G SFP uplinks in a 1-RU fan-cooled chassis.
- IEEE 802.3at PoE+ (up to 30 W per port); 370 W PoE budget with a single 600 W PSU, 740 W with dual.
- Optional StackWise-80 hardware stacking (up to five members) for a single logical switch.
- Cloud-managed through Cisco Meraki Dashboard - zero-touch provisioning and centralized visibility.
- Full lifetime hardware warranty with next-day advanced replacement.

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Switching capacity	292 Gbps (standalone); 372 Gbps (with stacking)
Forwarding rate	229.16 Mpps (standalone); 277 Mpps (stacked)
Stacking	StackWise-80, 80 Gbps back-panel, up to 5 members (optional kit)
MAC addresses	16,000

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IPv4 routes	11,000 (8,000 direct + 3,000 indirect)
VLAN IDs	4,096 (max active 1,024 without STP)
Jumbo frame	9,198 bytes

Item	Value
PoE standard	IEEE 802.3at PoE+ (30 W per port, incl. mGig ports)
PoE budget (single PSU)	370 W (PWR-C5-600WAC)
PoE budget (dual PSU)	740 W
Power supply	PWR-C5-600WAC, 600 W AC, hot-swappable, dual redundant bays

Component	Specification
CPU / ASIC	Cisco UADP 2.0 Mini ASIC with integrated CPU
DRAM / flash	2 GB / 4 GB
Stack ports	2x dedicated 80G StackWise stack ports (require C9200L-STAK-KIT-M)
Management port	1x dedicated management interface
Power draw (idle/max)	~65.6 W / ~489.6 W
Fans	2 fixed (non-hot-swap) fans

Property	Value
Dimensions (H x W x D)	1.73 x 17.5 x 15.4 in (4.4 x 44.5 x 39.1 cm)
Weight	12 lb (5.44 kg)
Rack units	1 RU
Operating temperature	-5 C to +45 C
Storage temperature	-40 C to +70 C
Relative humidity	5% to 90% non-condensing
MTBF	374,730 hours

Catalyst 9000 platforms run Cisco IOS XE and provide a consistent set of high-scale Layer 2 and Layer 3 switching services. The capabilities below apply across the Catalyst 9300/9400/9500/9600 family and are enabled in software on the platform.

Feature	Description
VLANs / VTP	Up to 4,094 VLANs per switch; VTP v2/v3 transparent and server/client modes
Spanning Tree	PVST+, Rapid PVST+, MST (802.1s); BPDU Guard, Root Guard, Loop Guard
MAC address table	32,000 entries (depending on platform); MACsec with IEEE 802.1AE
IPv4/IPv6 routing	OSPFv2/v3, IS-IS, EIGRP, BGP-4, MP-BGP, EIGRPv6, IS-ISv6, static v4/v6
VRF-Lite / MPLS	Multi-VRF (VRF-Lite) and segment routing awareness (platform dependent)
First-hop redundancy	HSRP v1/v2, VRRP, GLBP (IPv4/IPv6)
Multicast	PIM Sparse Mode / Dense Mode / SSM, IGMPv3, MLDv2, mroute hardware scale
QoS	8 queues per port (Cisco-class QoS), 802.1p, DSCP, policing/shaping, auto-QoS
Security	Port security, DHCP snooping, Dynamic ARP Inspection, IP Source Guard, 802.1x
TrustSec / SGACL	Cisco TrustSec SGT/SGACL tagging and segmentation (platform capable)
NetFlow / IPFIX	Flexible NetFlow v9 / IPFIX on all uplink and downlink ports
MACsec	AES-128/256-GCM 802.1AE link-layer encryption (Cisco ASIC)

Cisco publishes per-platform performance figures for common workload mixes. The indicative numbers below summarize how the platform behaves under load; refer to the official datasheet for the exact test methodology.

Workload / Metric	Reference value
64-byte L2 forwarding	Wire-rate at all port densities on supported platforms
64-byte L3 IPv4 forwarding	Wire-rate with services enabled on supported models
IMIX mixed packet workload	Reported per-platform in the official datasheet
MACsec encrypted forwarding	Wire-rate AES-128/256-GCM with no throughput penalty (ASIC)
Routing convergence	Sub-second OSPF/IS-IS/BGP convergence on GR/NSF-capable platforms
NetFlow / IPFIX records	Up to 384,000 IPv4 + 192,000 IPv6 records (per-platform SDM)
MAC address table	Up to 128,000 (custom SDM templates available on newer platforms)
IPv4 route scale	Up to 256,000 routes (custom SDM template; varies by model)
IPv6 route scale	Up to 256,000 routes (custom SDM template; varies by model)
ACL scale	Up to 72,000 ACEs (Ingress + Egress) on supported models
VLAN / SVI scale	Up to 4,094 VLANs; up to 1,000 SVIs
QoS queues per port	8 hardware queues per port (Cisco-class QoS)

The Catalyst platform supports a comprehensive ecosystem of pluggable optics, stacking kits, and accessories. The following tables summarize the most commonly deployed options for C9200L-24PXG-2Y-M.

Module / Accessory	Description
Cisco SFP/SFP+ optics	GLC-T (1G copper), GLC-SX-MMD / -LX-SMD / -LH-SMD / -ZX-SMD (1G SX/LX)
Cisco SFP+ 10G optics	SFP-10G-SR, SFP-10G-LR, SFP-10G-ER, SFP-10G-ZR, SFP-10G-T (copper)
Cisco 25G SFP28 optics	SFP-25G-SR-S, SFP-25G-LR-S (where 25G uplinks available)
Cisco 40G/100G QSFP optics	QSFP-40G-SR4 / -LR4, QSFP-100G-SR4-S / -LR4-S (where applicable)
Stacking cables/kits	StackWise cabling kits (per platform; e.g. STACK-T1-50CM)
Spare power supply	Platform-matched AC PSU (e.g. PWR-C1-1100WAC-P) for redundancy
Spare fan tray	Platform-matched fan module (FRU) for hot-swap maintenance
Console cable	CAB-CONSOLE-RJ45 / CAB-CONSOLE-USB for CLI management access
Rack-mount kit	Standard 19-in four-post EIA-310-D rack-mount brackets included
Cisco DNA / Network Advantage	Cisco subscription license tier for the switch model

Power and acoustic performance for the platform is published in the Cisco official datasheet. Indicative values are summarized below; consult the datasheet for the exact test methodology and ATIS weighted-average measurements.

Metric	Indicative value
ATIS no-link power (115 VAC)	Reported per-platform in the official datasheet
ATIS weighted average (115 VAC)	Reported per-platform in the official datasheet
ATIS 100% traffic (115 VAC)	Reported per-platform in the official datasheet
100% PoE budget test	Reported per-platform in the official datasheet
AC input	100-240 VAC, autoranging, 50-60 Hz
DC input (where supported)	-40 to -72 VDC; high-voltage DC where supported
PSU redundancy	1+1 redundant AC/DC power supplies (hot-swappable, where dual bays)
Airflow	Front-to-back or back-to-front, depending on fan model (where supported)
Acoustic noise	LpA reported in the datasheet (typically 43-58 dB for enterprise)
Heat dissipation	Reported in BTU/hr at full load
Operating altitude	Up to 3,000 m (10,000 ft); derating above 1,500 m on some platforms
ENERGY STAR / 80 PLUS	Platinum efficiency on supported PSUs

The platform is built to the following interoperability, safety and environmental standards. Compliance is verified by independent testing laboratories (UL, CSA, TUV).

Category	Standard
Layer 2	IEEE 802.1Q, 802.1D, 802.1w (RSTP), 802.1s (MSTP), 802.1p, 802.1x, 802.3ad LACP
Layer 3	RFC 1812 IPv4, RFC 4291 IPv6; OSPFv2 (RFC 2328) / v3 (RFC 5340), IS-IS, BGP-4, EIGRP
VLAN / VPN	802.1Q VLAN tagging; VXLAN EVPN (platform capable); L2TPv3, MPLS awareness
Security	802.1AE MACsec, 802.1X, RADIUS (RFC 2865), TACACS+ (RFC 8907), SSHv2
QoS	802.1p, DSCP (RFC 2474), RFC 2598 Assured Forwarding PHB
Management	SNMPv2c/v3, NETCONF (RFC 6241), RESTCONF, YANG (RFC 6020/7950)
Time sync	IEEE 1588v2 PTP, NTPv4, GPS antenna input (where applicable)
Safety	UL 60950-1, CAN/CSA C22.2 No. 60950-1, IEC 60950-1, AS/NZS 60950.1, UL/IEC/EN 62368-1
EMC	FCC 47 CFR Part 15 Class A, EN 55032/CISPR 32 Class A, EN 55024/55035, EN 300 386
Environmental	RoHS 2011/65/EU, WEEE 2012/19/EU, REACH; operating/storage altitude as per datasheet

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