

# Thuyết minh thông số kỹ thuật sản phẩm

## Switch Cisco Catalyst C9300L-48P-4G-E



### C9300L-48P-4G-E Catalyst 9300 48-port 1G copper, with fixed 4x1G SFP uplinks, PoE+ Network Essentials

| <b>Performance &amp; Bandwidth thông số</b>    |   |
|--|---|
| Mã part  | C9300L-48P-4G-E   |
| Cấu hình                                       | 48-port 1G copper PoE+                                  |
|  | fixed 4x1G SFP uplinks                                  |
| Total number of MAC addresses                  | 32,000  |
| Total number of IPv4 routes                    | 32,000 (24,000 direct routes and 8000 indirect routes)  |
| IPv6 routing entries                           | 16,000  |
| Multicast routing scale                        | 8,000   |
| QoS scale entries                              | 5,120   |
| ACL scale entries                              | 5,120   |
| Packet buffer per SKU                          | 16 MB buffer for 24 and 48 port Gigabit Ethernet models |
| FNF entries                                    | 64,000 flow on 24- and 48-port Gigabit Ethernet models  |
| DRAM   | 8 GB  |
| Flash  | 16 GB   |
| VLAN IDs                                       | 4094  |
| Total Switched Virtual Interfaces (SVIs)       | 1000  |
| Jumbo frames                                   | 9198 bytes  |
| Total routed ports per C9300 Series stack      | 416   |
| Switching capacity                             | 104 Gbps  |
| Switching capacity with stacking               | 424 Gbps  |
| Forwarding rate                                | 77.38 Mpps  |
| Forwarding rate with stacking                  | 315.48 Mpps   |
| Stacking support                               | StackWise-320   |
| Stacking bandwidth support                     | 320 Gbps  |
| Optional Stacking hardware                     | C9300L-STACK-KIT  |
| Number of members                              | 8   |
| Supported stack members                        | Other C9300L SKUs with same license level               |
| <b>Thông số kỹ thuật nguồn</b>                 |   |
| Nguồn cho Cisco 9300L                          | PWR-C1-715WAC-P; PWR-C1-715WAC-P/2                      |
| Power supply rated maximum output power        | 715W  |
| Total output BTU<br>(note: 1000 BTU/hr = 293W) | 2440 BTU/hr, 715W                                       |
| Input-voltage range and frequency              | 100 to 240 VAC,   |
|  | 50 to 60 Hz   |
| Input current                                  | 10-5A   |
| Output ratings                                 | -56V at 12.8A   |
| Output holdup time                             | 20 ms minimum at 100VAC                                 |
| Power-supply input receptacles                 | IEC 320-C16   |
|  | (IEC60320-C16)  |
| Power cord rating                              | 15A   |
| Physical specifications                        | (H x W x D): 1.58 x 3.25 x 12.20 in                     |

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| Physical specifications   | Weight: 2.6 lb (1.2 kg)  |
| 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   |
| 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 (AC input models only)  |
|   | VCCI Class A   |
|   | EN 55024, EN300386, EN 61000-3-2, EN 61000-3-3   |
| EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN 61000-6-1 |  |
| LED indicators  | "AC OK": Input power to the power supply is OK   |
|   | "PS OK": Output power from the power supply is OK  |
| <b>DNA mua kèm Switch Cisco Catalyst 9300L</b>                                |  |
| Network Essentials  | Tính năng Network Essentials   |
| ✓   | 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, SSO |
| x   | Advanced switch capabilities and scale   |
|   | BGP, EIGRP, HSRP, IS-IS, BSR, MSDP, PIM-BIDIR, IP SLA, OSPF  |
| x   | Network segmentation   |
|   | VRF, VXLAN, LISP, SGT, MPLS, mVPN  |
| ✓   | Automation   |
|   | NETCONF, RESTCONF, gRPC, YANG, PnP Agent, ZTP/Open PnP, GuestShell (On-Box Python)   |
| ✓   | Telemetry and visibility   |
|   | Model-driven telemetry, sampled NetFlow, SPAN, RSPAN   |
| x   | High availability and resiliency   |
|   | Nonstop Forwarding (NSF), Graceful Insertion and Removal (GIR), Fast Software Upgrade (FSU), Software Patching (CLI Based)   |
| x   | IOT integration  |
|   | AVB, PTP, CoAP   |
| x   | Security   |
|   | MACsec-256   |
| Cisco DNA Essentials  | Tính năng Cisco DNA Essentials   |
|   | Switch features  |
| x   | Optimized network deployments  |
|   | Cisco DNA Service for Bonjour  |
| ✓   | Advanced telemetry and visibility  |
|   | Full Flexible NetFlow, EEM   |
| x   | Optimized telemetry and visibility   |
|   | ERSPAN, AVC (NBAR2), app hosting (in containers/VMs), Wireshark  |
| x   | Advanced security  |

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| ✓ | Encrypted Traffic Analytics (ETA)  |
|   | Cisco DNA Center features  |
| ✓ | Day-0 network bring-up automation<br>Cisco Network Plug-and-Play application, network settings, device credentials, LAN automation, host onboarding  |
| ✓ | Element management<br>Discovery, inventory, topology, software image, licensing, and configuration management  |
| X | Element management<br>Patch management   |
| ✓ | Basic Assurance<br>Health dashboards – Network, Client, Application; switch and wired client health monitoring   |
| X | SD-Access<br>Policy-based automation and assurance for wired and wireless  |
| X | SD-Access Embedded Wireless<br>C9800 Wireless Software package to enable Wireless Controller Functionality   |
| X | Network assurance and analytics<br>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) |
|   | Other Software included (can be purchased separately)  |
| X | ISE Base   |
| X | ISE Plus   |
| X | StealthWatch   |