

Thuyết minh thông số kỹ thuật sản phẩm Switch Cisco Catalyst C9300X-12Y-A



C9300X-12Y-A Catalyst 9300 12-port 25G/10G/1G SFP28 with modular uplinks, Network Advantage

Performance & Bandwidth thông số	
Mã part	C9300X-12Y-A
Cấu hình	12-port 25G/10G/1G SFP28
	modular uplinks
Total number of MAC addresses	32,000
Total number of IPv4 routes	39,000 (24,000 direct routes and 15,000 indirect routes)
IPv6 routing entries	19,500
Multicast routing scale	8,000
QoS scale entries	4,000
ACL scale entries	5,000
Packet buffer per SKU	16 MB buffer for C9300X-12Y
FNF entries	64,000 flows on C9300X-12Y
DRAM	16 GB
Flash	16 GB
VLAN IDs	4094
Total Switched Virtual Interfaces (SVIs)	1000
Jumbo frames	9198 bytes
Total routed ports per C9300 Series stack	448
Switching capacity	1,000 Gbps
Switching capacity with stacking	2,000 Gbps
Forwarding rate	744.04 Mpps
Forwarding rate with stacking	1488 Mpps
Stacking support	StackWise-1T
Stacking bandwidth support	1 Tbps
Optional Stacking hardware	StackWise cable
Number of members	8
Supported stack members	Stacks with other C9300X SKUs at StackWise-1T speeds with same license level
	Stacks with C9300 SKUs at StackWise-480 speeds with same license level
Thông số kỹ thuật nguồn	
Nguồn cho Cisco 9300	PWR-C1-715WAC-P; PWR-C1-715WAC-P/2
Power supply rated maximum output power	715W
Total output BTU (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
	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
DNA mua kèm Switch Cisco Catalyst 9300X	
Network Advantage	Tính năng DNA trên Cisco Catalyst 9300
	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
✓	Advanced switch capabilities and scale
	BGP, EIGRP, HSRP, IS-IS, BSR, MSDP, PIM-BIDIR, IP SLA, OSPF
✓	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
✓	High availability and resiliency
	Nonstop Forwarding (NSF), Graceful Insertion and Removal (GIR), Fast Software Upgrade (FSU), Software Patching (CLI Based)
✓	IOT integration
	AVB, PTP, CoAP
✓	Security
	MACsec-256
Cisco DNA Advantage	Tính năng Cisco DNA Advantage
	Switch features
✓	Optimized network deployments
	Cisco DNA Service for Bonjour
✓	Advanced telemetry and visibility
	Full Flexible NetFlow, EEM
✓	Optimized telemetry and visibility
	ERSPAN, AVC (NBAR2), app hosting (in containers/VMs), Wireshark
✓	Advanced security
	Encrypted Traffic Analytics (ETA)
	Cisco DNA Center features
✓	Day-0 network bring-up automation
	Cisco Network Plug-and-Play application, network settings, device credentials, LAN automation, host onboarding

✓	Element management
	Discovery, inventory, topology, software image, licensing, and configuration management
✓	Element management
	Patch management
✓	Basic Assurance
	Health dashboards – Network, Client, Application; switch and wired client health monitoring
✓	SD-Access
	Policy-based automation and assurance for wired and wireless
✓	SD-Access Embedded Wireless
	C9800 Wireless Software package to enable Wireless Controller Functionality*
✓	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)
	Other Software included (can be purchased separately)
X	ISE Base
X	ISE Plus
X	StealthWatch