Cisco Catalyst C9300X-48HX-A

Catalyst 9300X Series 48-Port UPOE+ mGig (Network Advantage)

TECHNICAL DATA SHEET

DOWNLINK PORTS	POE POWER	LICENSE TIER	STACKING SPEED
48x mGig	**UPOE+**	**Advantage**	**1 Tbps**
100M/1G/2.5G/5G/10G	Up to 90W per port	Full L3, BGP, VXLAN	StackWise-1T Tech

PRODUCT OVERVIEW

Model Name	Cisco Catalyst C9300X-48HX-A (C9300X-48HXG-A)
Software License Tier	Network Advantage **Full L3 Routing & Automation**
Form Factor	1U Rack-mountable
ASIC Architecture	Cisco UADP 2.0sec ASIC
Uplink Modules	Modular Network Module Bay (Supports 1G/10G/25G/40G/100G)

PERFORMANCE & SYSTEM CAPACITY

SPECIFICATION PARAMETER	STANDALONE PERFORMANCE	STACKED PERFORMANCE
Switching Capacity	2,000 Gbps (2.0 Tbps)	3,000 Gbps (3.0 Tbps)
Forwarding Rate	1,488 Mpps	2,232 Mpps
Stacking Bandwidth	StackWise-1T (1,000 Gbps)	Up to 8 Switches in Stack
DRAM / Flash Memory	16 GB DDR4	16 GB Flash Memory
MAC Address Table	32,000 entries	32,000 entries
FNF Routes & Entries	64,000 Flexible NetFlow entries	64,000 Flexible NetFlow entries

POWER & POE CAPABILITIES

Default Power Supply	PWR-C1-1100WAC-P (1100W AC Platinum-rated)
Default Available PoE Budget	590 W
Maximum PoE Budget	2,490 W (with dual 1900W AC Power Supplies)
Power Redundancy	Dual hot-swappable PSUs & Cisco StackPower+ technology
Fan Redundancy	3x Field-Replaceable, Variable-Speed Hot-Swappable Fans

NETWORK ADVANTAGE FEATURES

Advanced Layer 3 Routing	Full BGP, MP-BGP, OSPF, EIGRP, IS-IS, Policy-Based Routing (PBR), VRF-Lite
Network Virtualization	EVPN-VXLAN, L2/L3 VXLAN fabrics, Cisco SD-Access border node support
Hardware Security	• Line-rate 100G IPsec hardware encryption • MACsec-256 hardware encryption for link protection • Cisco TrustSec & Encrypted Traffic Analytics (ETA)