

Cisco Catalyst C9300L-24U-4X-A

24-Port UPOE, 4x 10G SFP+ Uplinks, Network Advantage

CATALYST 9300L SERIES

High-End Advantage License

Product Overview

The **Cisco Catalyst C9300L-24U-4X-A** is a flagship enterprise-class access switch engineered for high-density power, advanced routing, and intelligent automation. Equipped with 24 Gigabit Cisco UPOE (Universal Power over Ethernet) ports delivering up to 60W per port and 4 fixed 10G SFP+ uplinks, this model comes integrated with the premium **Network Advantage (-A)** license. It provides full BGP, OSPF, EIGRP routing, advanced VXLAN/EVPN fabric capabilities, Cisco TrustSec, and deep telemetry for modern SD-Access environments.

24 Ports

ACCESS PORTS

10/100/1000 Mbps with Cisco UPOE (60W)

4x 10G

FIXED UPLINKS

10 Gigabit SFP+ high-speed interfaces

128 Gbps

SWITCH CAPACITY

Up to 320 Gbps backplane with StackWise

880W

MAX POE BUDGET

437W default, upgradable to 880W

Technical & Performance Specifications

Specification Class	Technical Details
Model SKU	C9300L-24U-4X-A
Total Network Ports	24x 10/100/1000 Ethernet Ports + 4x 10G SFP+ Fixed Uplinks
Power over Ethernet (PoE)	Cisco UPOE (Up to 60W per port, IEEE 802.3bt Type 3 compatible)
PoE Power Budget	437W (Standard single 715W PSU) / 880W (With secondary dual PSU configuration)
Switching Capacity	128 Gbps (Standalone) / Up to 320 Gbps with StackWise-320
Forwarding Rate	95.23 Mpps (Million Packets Per Second)
Stacking Capability	Supported via optional StackWise-320 kit (Up to 8 units in a single stack)
System Memory	8 GB DRAM 16 GB Flash Memory
MAC Address Table	32,000 entries
Routing Table Capacity	32,000 IPv4 / 16,000 IPv6 routes (Advantage Tier Level)
Software License	Network Advantage (-A) (Includes Full L3 routing, BGP, VXLAN, TrustSec)

Architectural Features

- Universal PoE (60W UPOE):** High-power output for Wi-Fi 6/6E APs, high-end IP PTZ cameras, smart lighting, and video endpoints.

Network Advantage (-A) Capabilities

- Full Advanced Layer 3 Routing:** BGP, OSPF, EIGRP, IS-IS, Policy-Based Routing (PBR), and VRF-Lite.
- Cisco SD-Access & VXLAN:** Border node and fabric capabilities for automated micro-segmentation.

- **Integrated 10G Uplinks:** 4x 10G SFP+ ports eliminate the need for modular uplink add-ons, simplifying deployment.
- **StackWise-320:** Physical stacking bandwidth up to 320 Gbps for unified management and high availability.
- **Power & Fan Redundancy:** Modular dual power supplies and 3 field-replaceable variable speed fans.
- **High-End Security:** Cisco TrustSec (SGTs), MACsec encryption ready, IEEE 802.1X, and Advanced ACLs.
- **Advanced Telemetry:** Model-driven telemetry, Flexible NetFlow (FNF), ERSPAN, and Cisco DNA Center Advantage features.

Key Difference: C9300L-24U-4X-A (-A) vs C9300L-24U-4X-E (-E)

The **-A (Network Advantage)** model includes complete, unrestricted enterprise Layer 3 features such as full **BGP, OSPF, EIGRP, VRF-Lite, VXLAN, and Cisco SD-Access Fabric** support, along with dynamic scale capacity (32,000 IPv4 routes). In contrast, the **-E (Network Essentials)** model only provides basic Layer 3 (Static routing, RIP, and OSPF Routed Access up to 1000 routes).

Physical & Environmental Specifications

Dimensions (H x W x D)	1.73 x 17.5 x 17.5 inches (4.4 x 44.5 x 44.5 cm) - 1RU Rack Mountable
Weight	6.81 kg (15.0 lbs) with single default power supply
Power Supply Models	PWR-C1-715WAC-P (Default), PWR-C1-1100WAC-P, or PWR-C1-1900WAC-P
Operating Temperature	-5°C to 45°C (23°F to 113°F) at sea level
MTBF	301,920 hours