



## C9300-48UXM-A DataSheet

Cisco C9300-48UXM-A – 48×2.5G/10G UPOE ports, 580 Gbps switching (1060 Gbps stacked), StackWise-480, Network Advantage, VXLAN & MACsec.

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### C9300-48UXM-A Description

Cisco Catalyst C9300-48UXM-A features 48 multigigabit UPOE ports (2.5/1/0.1 Gbps, with 12 supporting native 10 Gbps) powered by a 1100 W AC PSU (490 W PoE budget). It delivers 580 Gbps of switching capacity and, when stacked via StackWise-480, provides 1060 Gbps switching capacity with stacking, forwarding up to 431.54 Mpps (788.69 Mpps stacked). Running IOS XE with the Network Advantage image, it supports full Layer 3 routing (OSPF, EIGRP, BGP, VRF-Lite), VXLAN, TrustSec, hardware MACsec-128 encryption, and SD-Access. Its UADP 2.0 ASIC ensures wire-speed hardware forwarding, deep buffers, and hardware-accelerated ACLs—all in a single 1 RU platform.

### Quick Specs

| Parameter                  | C9300-48UXM-A Specification                                                  |
|----------------------------|------------------------------------------------------------------------------|
| Switching Capacity         | 580 Gbps (single) / <b>1060 Gbps switching capacity with stacking</b>        |
| Forwarding Rate            | 431.54 Mpps (single) / 788.69 Mpps (stacked)                                 |
| Downlink Ports             | 48 × UPOE ports: 12 × 10 Gig + 36 × 2.5 Gig                                  |
| PoE Budget (Default / Max) | 490 W (single 1100 W PSU) / 1590 W (with 1900 W secondary PSU)               |
| Uplink Module Slot         | 1 × modular (supports 1/10/25/40/100 Gbps optics)                            |
| Stack Switching Capacity   | <b>1060 Gbps switching capacity with StackWise-480</b> (up to eight members) |

|                      |                              |
|----------------------|------------------------------|
| Packet Buffer        | 16 MB                        |
| DRAM / Flash         | 8 GB / 16 GB                 |
| Default Power Supply | 1100 W AC (PWR-C1-1100WAC-P) |

## Key Features

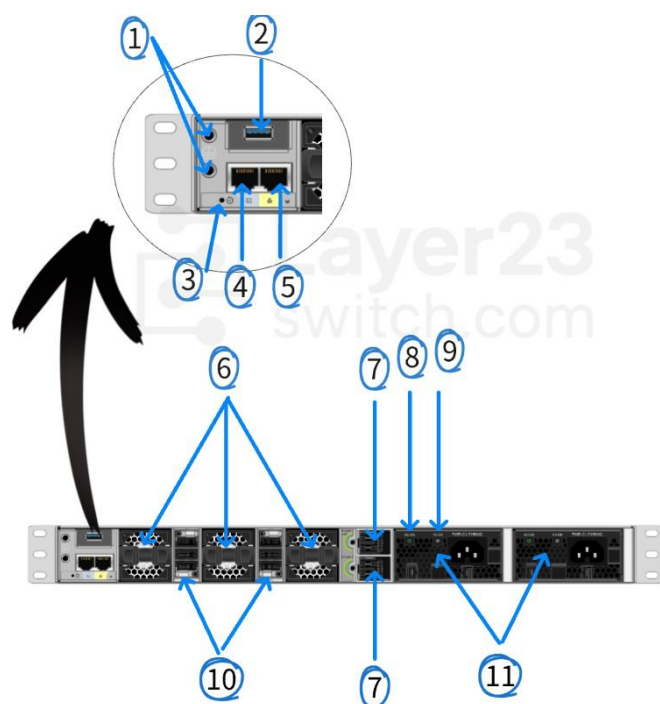
## Product Comparison

| Parameter                  | C9300-48UXM-A                                         | C9300-48UXM-E                                         | <a href="#">C9300-48U-A</a>                          | <a href="#">C9300-48UN-A</a>                          |
|----------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| Software License           | Network Advantage                                     | Network Essentials                                    | Network Advantage                                    | Network Advantage                                     |
| Downlink Ports             | 48 × 2.5G (12 × 10G) UPOE                             | 48 × 2.5G (12 × 10G) UPOE                             | 48 × 1 Gbps UPOE                                     | 48 × 5 Gbps UPOE                                      |
| PoE Budget (Default / Max) | 490 W / 1590 W                                        | 490 W / 1590 W                                        | 822 W / 1800 W                                       | 995 W / 2545 W                                        |
| Switching Capacity         | 580 Gbps / 1060 Gbps switching capacity with stacking | 580 Gbps / 1060 Gbps switching capacity with stacking | 256 Gbps / 736 Gbps switching capacity with stacking | 640 Gbps / 1120 Gbps switching capacity with stacking |
| Forwarding Rate            | 431.54 Mpps / 788.69 Mpps (stacked)                   | 431.54 Mpps / 788.69 Mpps (stacked)                   | 190.47 Mpps / 553.42 Mpps (stacked)                  | 476.19 Mpps / 833.33 Mpps (stacked)                   |
| Uplink Options             | 1 × modular (1/10/25/40/100 Gbps optics)              | 1 × modular (1/10/25/40/100 Gbps optics)              | 1 × modular (1/10/25/40/100 Gbps optics)             | 1 × modular (1/10/25/40/100 Gbps optics)              |
| Packet Buffer              | 16 MB                                                 | 16 MB                                                 | 16 MB (shared, 48-port)                              | 16 MB (shared, 48-port)                               |
| MACsec Support             | Yes (hardware-accelerated)                            | Yes (hardware-accelerated)                            | Yes (hardware-accelerated)                           | Yes (hardware-accelerated)                            |

## C9300-48UXM-A Switch Rear Panel

The switch rear panel includes StackWise connectors, StackPower or XPS connectors, ports, fan modules, and power supply modules.

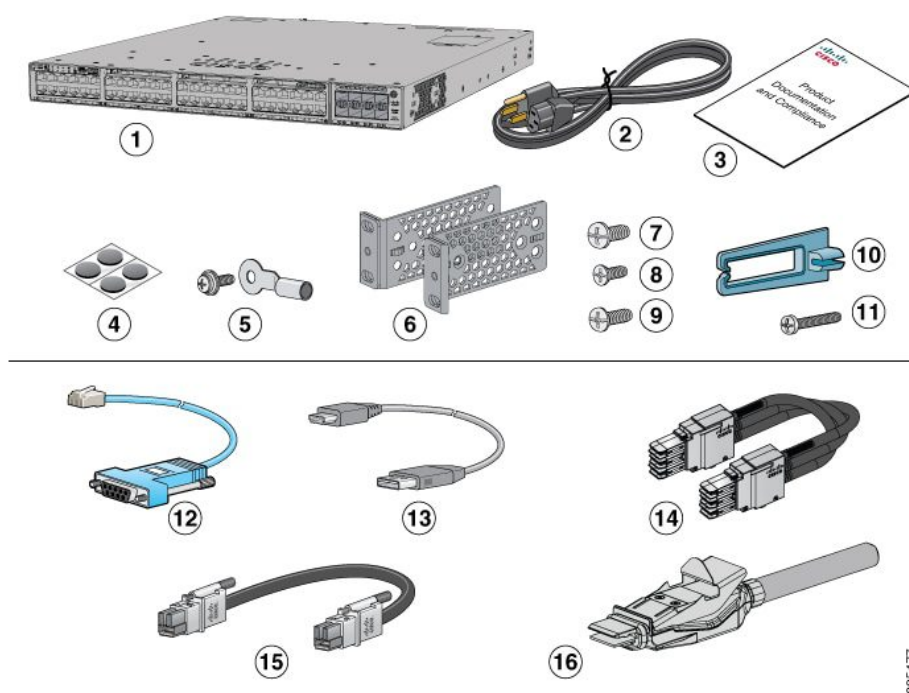
|   |                                          |    |                               |
|---|------------------------------------------|----|-------------------------------|
| 1 | Ground connectors                        | 7  | StackPower connectors         |
| 2 | USB3.0-SSD port                          | 8  | AC OK (input) status LED      |
| 3 | BEACON LED                               | 9  | PS OK (output) status LED     |
| 4 | CONSOLE (RJ-45 console port)             | 10 | StackWise-480 port connectors |
| 5 | MGMT (RJ-45 10/100/1000 management port) | 11 | Power supply modules          |
| 6 | Fan modules                              | -  | -                             |



## Components Delivered in the Shipping Box

The shipping box contains the model of the switch you ordered and other components needed for installation. Some components are optional, depending on your order.

|   |                                                                                                                      |    |                                                                    |
|---|----------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------|
| 1 | Cisco Catalyst 9300 Series switch with optional network module <sup>1</sup> (power supply and fan modules not shown) | 9  | Eight number-8 Phillips flat-head screws                           |
| 2 | AC power cord                                                                                                        | 10 | Cable guide                                                        |
| 3 | Product documentation and compliance document                                                                        | 11 | M4.0 x 20mm Phillips pan-head screw                                |
| 4 | Four rubber mounting feet                                                                                            | 12 | (Optional) RJ-45 console cable                                     |
| 5 | Ground lug screw and ring terminal                                                                                   | 13 | (Optional) USB console cable                                       |
| 6 | Two 19-inch mounting brackets                                                                                        | 14 | (Optional) StackWise-480/1T cable (0.5-meter, 1-meter, or 3-meter) |
| 7 | Four number-12 pan-head screws                                                                                       | 15 | (Optional) StackPower cable (0.3-meter or 1.5-meter)               |
| 8 | Four number-10 pan-head screws                                                                                       | 16 | (Optional) StackWise-320 cable                                     |



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## Specification

| Parameter                    | C9300-48UXM-A Specification                                                       |
|------------------------------|-----------------------------------------------------------------------------------|
| Switching Capacity           | 580 Gbps (single) / 1060 Gbps switching capacity with stacking                    |
| Forwarding Rate              | 431.54 Mpps (single) / 788.69 Mpps (stacked)                                      |
| Downlink Ports               | 48 × 10/5/2.5/1 Gbps UPOE (12 × 10 Gbps capable) (IEEE 802.3bt Type 3)            |
| Packet Buffer                | 16 MB per 48-port multigig model                                                  |
| Uplink Module Slot           | 1 × hot-swappable modular slot (1/10/25/40/100 Gbps optics)                       |
| PoE Budget (Default)         | 490 W (with PWR-C1-1100WAC-P)                                                     |
| PoE Budget (Max)             | 1590 W (with secondary PWR-C1-1900WAC-P)                                          |
| DRAM                         | 8 GB DDR4                                                                         |
| Flash                        | 16 GB                                                                             |
| MAC Address Table            | 32,000 entries                                                                    |
| IPv4 Routes                  | 32,000 (24 000 direct / 8 000 indirect)                                           |
| IPv6 Routes                  | 16,000                                                                            |
| VLAN IDs Supported           | 4,094                                                                             |
| ACL Entries                  | 5,120                                                                             |
| QoS Entries                  | 5,120                                                                             |
| Flexible NetFlow (FNF) Flows | 128,000 flows                                                                     |
| MTBF                         | 202,160 hours                                                                     |
| Dimensions (H × W × D)       | 1.73 × 17.5 × 19.1 in (4.4 × 44.5 × 48.5 cm) (depth w/ PS: 22.2 in / 56.4 cm)     |
| Weight                       | 20.84 lb / 9.45 kg                                                                |
| Operating Temperature        | -5 °C to 45 °C                                                                    |
| Relative Humidity            | 5 % to 90 % non-condensing                                                        |
| Acoustic Levels (Idle / Max) | 53 dB / 57 dB @ 110 VAC                                                           |
| Compliance                   | IEEE 802.3, 802.3u, 802.3bz, 802.3bt, 802.1X, RoHS, FCC Class A, CISPR 32 Class A |
| Security Features            | MACsec-128, 802.1X, TrustSec, Dynamic ARP Inspection                              |
| Management                   | CLI, SNMPv3, NETCONF, RESTCONF, Cisco DNA Center integration                      |
| Warranty                     | Limited lifetime – Next Business Day Replacement                                  |
| Software Image               | IOS XE 17.x – Network Advantage                                                   |
| Stack Cable Access           | Front-to-front, tool-free connectors                                              |

| Parameter         | C9300-48UXM-A Specification |
|-------------------|-----------------------------|
| Energy Efficiency | EPA Tier 2 compliant        |

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