## Overview

WS-C4500X-32SFP+ is a Cisco Catalyst 4500-X Series Switch. It is a fixed aggregation switch that delivers best-in-class scalability, simplified network virtualization, and integrated network services for space-constrained environments in campus networks.

## Quick Specification

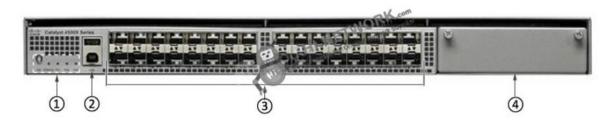| | |
|---|---|
| Product Code | WS-C4500X-32SFP+ |
| Ports | 32 × 1G or 10G Ethernet ports (requires either SFP or SFP+ transceivers) |
| Feature Set | IP Base |
| Uplink Module Slot | 1 (8 x 10 GE SFP+/SFP - C4KX-NM-8SFP+) |
| Switching Capacity | Up to 800-Gbps |
| Onboard Memory (SRAM DDR-II) | 4 GB |
| Port Buffers | 32-MB Shared Memory |
| CPU | Dual Core 1.5 GHz |
| NVRAM | 2 GB |
| Optional External Memory (SD Card) | 2 GB |
| Airflow | Front-to-back cooling |
| Chassis dimensions | 43.8 cm x 53.3 cm x 4.4 cm |
| Package Weight | 19.84 Kg |

## Product Details:

**The Front Panel:**

| ① | LEDs Area |
|---|---|
| ② | USB ports (2 ports) Top port is a Type A connector; bottom port is a Type B connector |
| ③ | 32 × Ethernet ports |
| ④ | 8-port uplink module slot (Purchased alone) |

**The Other Panel:**

| ① | SECURE DIGITAL port |
|---|---|
| ② | CONSOLE port |
| ③ | 10/100/1000 MGT port |
| ④ | Fan assemblies (5 assemblies) |

| ⑤ | Chassis ground pad |
|---|---|
| ⑥ | Power supply bay (AC-input power supply shown installed) |
| ⑦ | Power supply bay (AC-input power supply shown installed) |

## Accessories For WS-C4500X:

### Modules and Cables:

| Category | Model | Description |
|---|---|---|
| Uplink Module | C4KX-NM-8SFP+ | Cisco Catalyst 4500-X 8 Port 10GE Ethernet port uplink Module C4KX-NM-8SFP+ |
| Power Supply | C4KX-PWR-750AC- R= | Catalyst 4500X 750W AC front to back cooling power supply |
| | C4KX-PWR-750AC- R/2 | Catalyst 4500X 750W AC front to back cooling 2nd PW supply |
| License | L-C4500X-IP-ES= | Cisco Catalyst 4500-X IP BASE to Enterprise Services upgrade license (electronic delivery) for 32-port and 40-port models |
| Console Cable | CAB-CONSOLE-RJ45 | Console Cable 6ft with RJ45 and DB9F |
| 1G SFP | GLC-SX-MMD | 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM |
| | GLC-LH-SMD | 1000BASE-LX/LH SFP transceiver module, MMF/SMF,1310nm, DOM |
| 10G SFP | SFP-10G-SR | 10GBASE-SR SFP Module |
| | SFP-10G-ZR | Cisco 10GBASE-ZR SFP10G Module for SMF |

Get more information:

Do you have any question about WS-C4500X-32SFP+?

Contact us now via e-mail: info@hi-network.com

## Specific Data Sheet:

| Model | WS-C4500X-32SFP+ |
|---|---|
| Expansion Module (Optional) | 8x10 GE SFP+/SFP - C4KX-NM-8SFP+ |
| Management Ports | 10/100/1000 Base-T |
| USB Port | Type A (storage and boot) up-to 4 GB |
| Dual Power Supply | Yes |
| Field Replaceable Fans | Yes（5 Fans） |
| Fan Redundancy | No performance impact with single fan failure |
| System Throughput | Up to 800 Gbps |

| | |
|---|---|
| IPv4 Routing in Hardware | Up to 250 Mpps |
| IPv6 Routing in Hardware | Up to 125 Mpps |
| L2 Bridging in Hardware | Up to 250 Mpps |
| Media Access Control (MAC) Entries | 55K |
| Forwarding Entries | 32x10 GE Port Base SKU: IPv4: 256K, IPv6: 128K |
| Flexible Netflow Entries | 128 K |
| Switched Port Analyzer (SPAN), Remote Switched Port Analyzer (RSPAN) | 8 line rate bidirectional sessions (ingress and egress) |
| Total VLANs | 4094 |
| Total Switched Virtual Interfaces (SVIs) | 4094 |
| IGMP groups | 32 K |
| Multicast routes | 32x10 GE Port Base SKU: IPv4: 32K, IPv6: 32K |
| Dynamic Host Configuration Protocol (DHCP) Snooping Entries | 12K (DHCP snooping bindings) |
| ARP Entries | 47 K |
| Spanning Tree Protocol Instances | 10 K |
| Jumbo Frame Support for Bridged and Routed Packets | Up to 9216 bytes |
| High Availability Solution | Virtual Switching System (VSS) |
| Number of stackable switches in VSS | Up to 2 |
| VSS Throughput | Up to 1.6 Tbps |
| Virtual Switch Link | 1GE or 10GE |
| Max number of Virtual Switch Links | 8 |
| In-Service Software Upgrade | Across the switches |
| Nonstop Forwarding with Stateful Switchover | Across the switches |
| Onboard Memory (SRAM DDR-II) | 4 GB |
| Port Buffers | 32-MB Shared Memory |
| CPU | Dual Core 1.5 GHz |
| NVRAM | 2 GB |
| Optional External Memory (SD Card) | 2 GB |
| Port Queues | 8 Queues/Port |
| CPU Queues | 64 |
| QoS Entries | 128K (64K ingress and 64K in egress) Shared with ACL |
| Aggregate Rate-Limiting | Ingress port or VLAN and egress VLAN or Layer 3 port |
| Rate-Limiting Level Types | Committed Information Rate (CIR), Peak Information Rate (PIR) |
| Aggregate Traffic Rate-Limiting Policers (1K=1024) | 16 K |
| Flow-Based Rate-Limiting Method; Number of Rates | Supported using flow-records in the classification criteria and policing action |
| Qos Policy Enforcement | Per Port or Per Vlan or Per Port, Per VLAN Granularity |

| | |
|---|---|
| Class of Service (CoS) | Yes |
| Differentiated Services Code Point (DSCP) | Yes |
| Port Security | Yes |
| IEEE 802.1x and 802.1x Extensions | Yes |
| VLAN, Router, and Port ACLs | Yes |
| Security ACL Entries (1K=1024) | 128K (64K ingress and 64K in egress) Shared with QoS |
| Unicast Reverse Path Forwarding (uRPF) Check in Hardware | Yes |
| CPU Rate Limiters (DoS Protection) Includes Control Plane Policing | Yes |
| Private VLANs | Yes |
| Micro Flow Policer | Yes. Supported using flow records in the class-map |
| CPU HW Rate Limiters by Packet Per Second (pps) and Bit Rate Policers (bps) | Supported in hardware control-plane policing (CoPP) |
| Control Plane Policing (CoPP) for Multicast | Yes |
| ACL Labels | Yes |

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