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Overview

WS-C4500X-F-32SFP+ is one of the Catalyst 4500-X series switches. The Catalyst 4500-X series switch 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-F-32SFP+
Ports	32 × 1G or 10G Ethernet ports (requires either SFP or SFP+ transceivers)
Uplink Module Slot	1 Expansion Module (Optional): 8x10 GE SFP+/SFP - C4KX-NM-8SFP+
Management Port	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
Forwarding Entries	32x10 GE Port Base SKU: IPv4: 256K, IPv6: 128K
Flexible Netflow Entries	128K
Onboard Memory (SRAM DDR-II)	4 GB
Chassis dimensions (H x W x D)	1.75 x 17.25 x 21 in. (4.4 x 43.8 x 53.3 cm) (H x W x D)

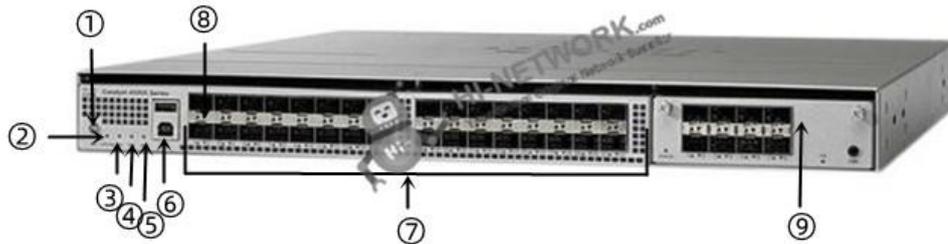


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Product Details:

The Front Panel:



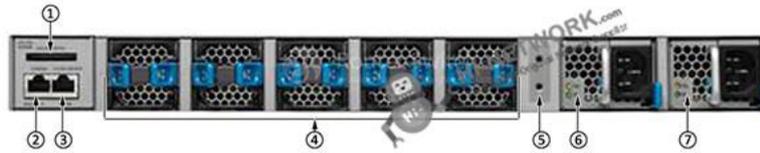
①	UID LED and switch combination
②	STATUS LED
③	PS1 LED
④	PS2 LED
⑤	FAN LED
⑥	USB ports (2 ports) Top port is a Type A connector; bottom port is a Type B connector
⑦	Ethernet ports (32 port version shown) Note The 16 port version of the chassis does not have the block of 16 ports on the right side of the front panel. Ethernet ports require either an SFP or an SFP+ transceiver to operate.
⑧	Port status LEDs (1 LED per port)
⑨	8-port uplink module (part no. C4KX-NM-8SFP+) (Included as part of the WS-C4500X-24ES and WS-C4500X-40ES chassis; available as an optional upgrade on the other Catalyst 4500-X series chassis)



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The Back Panel:



①	SECURE DIGITAL port
②	CONSOLE port
③	0/100/1000 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-F-32SFP+:

Recommended Elements:

Category	Model	Description
Power Supplies	C4KX-PWR-750AC-F/2	Catalyst 4500X 750W AC back to front cooling 2nd power supply
License	C4500X-IP-ES	IP Base to Ent. Services license for 32 Port Catalyst 4500-X
CARD	C4KX-NM-8SFP+	Catalyst 4500X 8 Port 10G Network Module
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
	GLC-T	1000BASE-T SFP
	GLC-BX-U	1000BASE-BX SFP, 1310NM





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	GLC-BX-D	1000BASE-BX SFP, 1490NM
	GLC-ZX-SMD	1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM
10G SFP	SFP-10G-SR	10GBASE-SR SFP Module
	SFP-10G-LRM	10GBASE-LRM SFP Module
	SFP-H10GB-CU3M	10GBASE-CU SFP+ Cable 3 Meter

Compare To Similar Items:

Models	WS-C4500X-F-32SFP+	WS-C4500X-16SFP+
Ports	32 × 1G or 10G Ethernet ports (requires either SFP or SFP+ transceivers)	16 × 1G or 10G Ethernet ports (requires either SFP or SFP+ transceivers)
Base System	Back to Front Airflow	Front to Back Airflow
MTBF Information	199,720 h	209,330 h
Fan assemblies	5 assemblies(fan assemblies and the power supplies are color coded blue)	5 assemblies(fan assemblies and the power supplies are color coded burgundy)

Get more information:

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

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

Specific Data Sheet:

Model	WS-C4500X-F-32SFP+
Base System	Back to Front Airflow: ● 32x10 GE SFP+/SFP - WS-C4500X-F-32SFP+
Management Port	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





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Media Access Control (MAC) Entries	55K
Forwarding Entries	32x10 GE Port Base SKU: IPv4: 256K, IPv6: 128K
Flexible Netflow Entries	128K
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	32K
Multicast routes	32x10 GE Port Base SKU: IPv4: 32K, IPv6: 32K
Dynamic Host Configuration Protocol (DHCP) Snooping Entries	12K (DHCP snooping bindings)
ARP Entries	47K
Spanning Tree Protocol Instances	10K
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)	16K
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



WS-C4500X-F-32SFP+ Datasheet



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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
Port ACL	Yes
Traffic Storm Control (formally known as Broadcast/Multicast Suppression)	Yes
VRF-Lite Scalability	64
Easy Virtual Network (EVN) Scalability	32
Operating Temperature	0°C to 40°C (RH to 90%)
Storage Temperature	-40°C to 70°C (RH 93%)
Operating Altitude	60m below sea level to 3000m above sea level
Relative Humidity	Nonoperating Humidity: 95% RH
Acoustic Noise Measured per ISO 7779 and Declared per ISO 9296 Bystander Positions Operating to an Ambient Temperature of 25°C	Industrial Product: 65 dBA maximum
RoHS	Reduction of Hazardous Substances (ROHS) 5
AC Power Max Rating	750W
System Power Consumption	330W nominal/400W max
Input-Voltage Range and Frequency	AC 100 to 240 VAC 50-60 Hz/DC -72 VDC to -40 VDC
DC Power Max Rating	750W
AC to DC failover and vice versa	Yes
Total Output BTU (Note: 1000 BTU/hr = 293W)	1122 BTU/hr (330 W) nominal/1365 BTU/hr (400 W) max
Input Current	AC 11A @ 110VAC, 6 A @ 200VAC/DC 25A Max
Output Ratings	12V @ 62A & 3.3V @ 3A



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Output Holdup Time	AC = 16 ms; DC = 4 ms @ maximum load
Power-Supply Input Receptacles	AC IEC 60320 C15/DC Custom detachable screw terminal (supplied)
Power Cord Rating	AC 15A/DC 25A
WS-C4500X-F-32SFP+	199,720
MTBF Information	
Regulatory Compliance	CE marking
EMI and EMC Compliance	<p>47CFR Part 15 (CFR 47) Class A</p> <p>AS/NZS CISPR22 Class A</p> <p>CISPR22 Class A</p> <p>EN55022 Class A</p> <p>ICES003 Class A</p> <p>VCCI Class A</p> <p>EN61000-3-2</p> <p>EN61000-3-3</p> <p>KN22 Class A</p> <p>CNS13438 Class A</p> <p>EN55024</p> <p>CISPR24</p> <p>EN300386</p> <p>KN24</p>
Safety Certifications	<p>UL 60950-1 Second Edition</p> <p>CAN/CSA-C22.2 No. 60950-1 Second Edition</p> <p>EN 60950-1 Second Edition</p> <p>IEC 60950-1 Second Edition</p> <p>AS/NZS 60950-1</p>
Industry EMC, Safety, and Environmental Standards	<p>GR-63-Core Network Equipment Building Systems (NEBS) Level 3</p> <p>GR-1089-Core Level 3</p>





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