

WS-C4500X-40X-ES Datasheet

Overview

WS-C4500X-40X-ES 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 Specs

Figure 1 shows the appearance of WS-C4500X-40X-ES.



Table 1 shows the Quick Specs.

Product Code	WS-C4500X-40X-ES
Product Type	Layer 3 Switch
Number of Total Expansion Slots	40
Expansion Slot Type	SFP+
Shared SFP Slot	No
PoE (RJ-45) Port	No
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	16x10 GE Port Base SKU: IPv4: 64K, IPv6: 32K
Flexible Netflow Entries	128K
Onboard Memory (SRAM DDR-II)	4 GB

The Accessories

Table 2 shows the recommended elements for the WS-C4500X-24X-ES.

Port Buffers	32-MB Shared Memory	
CPU	Dual Core 1.5 GHz	
NVRAM	2 GB	
Optional External Memory (SD Card)	2 GB	
System Power Consumption	330W nominal/400W max ·Power supplies, either AC-input or DC-input, are not included in the basic configuration; they are ordered separately	
Airflow	Back-to-front airflow (fan assemblies and the power supplies are color coded blue)	
Mean time between failures (MTBF)	199,720 h	
Chassis dimensions	1.75 x 17.25 x 21 in. (4.4 x 43.8 x 53.3 cm) (H x W x D)	
Chassis weight	·20 lb (9.07 kg) (without power supplies) ·22 lb (9.98 kg) (with one power supply installed) ·24 lb (10.89 kg) (with two power supplies installed)	
Category	Model	Description
AC Power Supplies	C4KX-PWR-750AC-R/2	Catalyst 4500X 750W AC front to back cooling 2nd PWR supply
	C4KX-PWR-750AC-R	Catalyst 4500X 750W AC front to back cooling power supply
CARD	C4KX-NM-8SFP+	Catalyst 4500X 8 Port 10G Network Module
CONSOLE CABLES	CAB-CONSOLE-RJ45	Console Cable 6ft with RJ45 and DB9F
1G SFP	GLC-SX-MMD	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
	GLC-BX-U	1000BASE-BX SFP, 1310NM
10G SFP	SFP-10G-SR	10GBASE-SR SFP Module
	SFP-H10GB-CU1M	10GBASE-CU SFP+ Cable 1 Meter

Compare to Similar Items

Table 3 shows the comparison of WS-C4500X-24X-ES and WS-C4500X-F-16SFP+.

Product Code	WS-C4500X-24X-ES	WS-C4500X-F-16SFP+
Switching capacity	800 Gbit/s	800 Gbit/s
Internal memory	2000 MB	4096 MB
Packet buffer memory	32 MB	32 MB
Mean time between failures (MTBF)	209330 h	209330 h
Power consumption (typical)	750 W	330 W
ports	16 1G or 10G Ethernet ports (requires either SFP or SFP+ transceivers)	16 1G or 10G Ethernet ports (requires either SFP or SFP+ transceivers)

WS-C4500X-40X-ES Specification	
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
Power Supply	
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
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
MTBF Information	
WS-C4500X-24X-ES	209,330
WS-C4500X-40X-ES	199,720
WS-C4500X-F-16SFP+	209,330
WS-C4500X-F-32SFP+	199,720
C4KX-FAN-R	L10 Life 60,000 at 40C
Regulatory Standards Compliance	
Regulatory Compliance	CE marking
EMI and EMC Compliance	47CFR Part 15 (CFR 47) Class A AS/NZS CISPR22 Class A CISPR22 Class A EN55022 Class A ICES003 Class A VCCI Class A EN61000-3-2 EN61000-3-3 KN22 Class A CNS13438 Class A EN55024 CISPR24 EN300386 KN24

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