

C9200L-48P-4X-E DATASHEET

Catalyst 9200L 48 Port PoE+ with 4x10G Uplinks,
Network Essentials



CISCO CATALYST 9200 SERIES OVERVIEW

The Catalyst 9200 series was designed for mid-sized and large-scale enterprises as well as for service providers that require high-performance, reliable, and secure network hardware. These switches were designed to help users simplify complexity, optimize IT, and reduce operational costs.

Quick Specs:

Model Number:	C9200L-48P-4X-E
Manufacturer:	Cisco
Ports:	(48) 10/100/1000 Copper PoE+
PoE Capability	740W (default); 1440W (max)
Stacking Bandwidth	80 Gbps
Default Power Supply	1000W AC
Uplinks:	4 x 10G SFP+
Software:	Network Essentials
Dimensions:	1.73" x 17.5" x 11.3"
Weight:	10.58 lbs (4.8kg)



C9200L-48P-4X-E Accessories:

The Catalyst 9200 series features highly versatile and scalable switches which come with a large range of options regarding accessories to enhance switch functionality.

Power Accessories:

The C9200L-48P-4X-E comes with a single default 1000W power supply. This switch has 2 power supply slots as it supports dual redundant power supplies. Note that the redundant power supply needs to be identical to the active power supply. If only one power supply is being used, users can cover the slot with a blank cover. The main module is field replaceable and the secondary one is hot-swappable.

Default Power Supply:	PWR-C5-1KWAC
Blank:	PWR-C5-BLANK
US Power Cord:	CAB-TA-NA

Stacking Accessories:

The C9200L-48P-4X-E supports StackWise®-80 technology, allowing for up to 80 Gbps of stacking bandwidth and a maximum of 8 switches in a single stack. It should be noted that mixed stacking is not supported between 9200 and 9200L models, nor is it supported with any other switch series. Stacking must be with other 9200 switches with the same license level.

Stack Kit	C9200L-STACK-KIT
50CM Stacking Cable	STACK-T4-50CM
1M Stacking Cable	STACK-T4-1M
3M Stacking Cable	STACK-T4-3M

Mounting Accessories:

The C9200L-48P-4X-E was designed to fit into standard 19" racks.

Mounting Kit	RACK-KIT-T1 (Brackets)
CK Accessory Kit	ACCY-9200-KIT

C9200L-48P-4X-E Specifications:

Switching Capacity:	176 Gbps
Switching Capacity with Stacking	256 Gbps
Forwarding Rate:	130.95 Mpps
Forwarding Rate with Stacking:	190 Mpps
Stacking Support:	StackWise@-80
Stacking Bandwidth:	80 Gbps
Cisco StackPower	No
Max Stack Members	8 Switches
PoE Specification:	PoE+
Default PoE Support:	740W
Max PoE Support:	1440W
Uplink Ports:	4 x 10G SFP+ Uplinks
Flash:	4GB
MAC Address Table Size:	16K
VLAN ID's Available:	4K
Max Active VLANS:	1K
IPv4 Routes:	14,000 (8,000 direct & 3,000 indirect)
IPv6 Routing Entries:	1,500
Multicast Routing Scale:	1,000
QoS Scale Entries:	1,000
ACL Scale Entries:	1,500
Jumbo Frames:	9198 bytes
DRAM:	2GB
Virtual Networks:	1
Operating System:	Cisco IOS XE
Software:	Network Essentials
Energy:	Energy Efficient Ethernet (EEE)
Predicted Reliability:	346,270 hrs MTBF

Network Essentials:

The C9200L-48P-4X-E features Cisco's Network Essentials perpetual license. This license is inherent to the device.

Network Advantage (Inclusive of Network Essentials)		Perpetual
Enhanced Security Controls: <ul style="list-style-type: none"> • MACSEC-256 	Flexible Network Segmentation: <ul style="list-style-type: none"> • VRF, VXLAN, LISP, SGT, MPLS 	
IOT & Mobility: <ul style="list-style-type: none"> • CoAP, AVB, PTP 	High Availability & Resiliency: <ul style="list-style-type: none"> • NSF, GIR, StackWise, Virtual, ISSU/eFSU, Patching (CLI) 	
Full Routing Functionality: <ul style="list-style-type: none"> • BGP, HSRP, OSPF, ISIS, GLBP 	Optimize Bandwidth Utilization with Multicast: <ul style="list-style-type: none"> • MSDP, mVPN, AutoRP, PIM-BIDIR 	

Network Essentials		Perpetual
Essential Switch Capabilities: <ul style="list-style-type: none"> • Layer 2 • Routed Access-RIP • EIGRP Stub • OSFP (1000 routes) • PBR • PIM Stub Multicast (1000 routes) • PVLAN • VRRP • CDP • QoS • FHS • 802.1x • MACsec-128 • CoPP • SXP • IP SLA Responder • SSO 	DevOps Integration: <ul style="list-style-type: none"> • NETCONF, RESTCONF, gRPC • Yang Data Models • GuestShell (On-Box Python) • PnP Agent, ZTP 	
	Telemetry & Visibility: <ul style="list-style-type: none"> • Model-Driven Telemetry • Sampled NetFlow • SPAN, RSPAN 	

Transceiver Module Compatibility:

Transceiver	Data Rate	Form Factor	Max Reach	Cable Type	Media	Connector Type
GLC-GE-100FX	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)
SFP-10G-SR	10 Gbps	SFP+	400m	Duplex Fiber	MMF	LC (PC or UPC)
SFP-10G-SR-S	10 Gbps	SFP+	400m	Duplex Fiber	MMF	LC (PC or UPC)
SFP-10G-LR	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)
SFP-10G-LR-S	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)
SFP-10G-ER	10 Gbps	SFP+	40km	Duplex Fiber	SMF	LC (PC or UPC)
SFP-10G-ER-S	10 Gbps	SFP+	40km	Duplex Fiber	SMF	LC (PC or UPC)
SFP-10G-ZR	10 Gbps	SFP+	80km	Duplex Fiber	SMF	LC (PC or UPC)
SFP-10G-ZR-S	10 Gbps	SFP+	80km	Duplex Fiber	SMF	LC (PC or UPC)
SFP-10G-BXD-I	10 Gbps	SFP+	10km	Single-strand Fiber	SMF	LC (PC or UPC)
SFP-10G-BXU-I	10 Gbps	SFP+	10km	Single-strand Fiber	SMF	LC (PC or UPC)
SFP-H10GB-CU1M	10 Gbps	SFP+	1m	Preterminated cable	DAC	N/A
SFP-H10GB-CU3M	10 Gbps	SFP+	3m	Preterminated cable	DAC	N/A
SFP-H10GB-CU5M	10 Gbps	SFP+	5m	Preterminated cable	DAC	N/A
SFP-H10GB-ACU7M	10 Gbps	SFP+	7m	Preterminated cable	DAC	N/A
SFP-H10GB-ACU10M	10 Gbps	SFP+	10m	Preterminated cable	DAC	N/A
SFP-10G-AOC1M	10 Gbps	SFP+	1m	Preterminated cable	AOC	N/A
SFP-10G-AOC2M	10 Gbps	SFP+	2m	Preterminated cable	AOC	N/A
SFP-10G-AOC3M	10 Gbps	SFP+	3m	Preterminated cable	AOC	N/A
SFP-10G-AOC5M	10 Gbps	SFP+	5m	Preterminated cable	AOC	N/A
SFP-10G-AOC7M	10 Gbps	SFP+	7m	Preterminated cable	AOC	N/A
SFP-10G-AOC10M	10 Gbps	SFP+	10m	Preterminated cable	AOC	N/A
DWDM-SFP10G-XX.XX	10 Gbps	SFP+	80km	Duplex Fiber	SMF	LC (PC or UPC)
CWDM-SFP10G-XXXX	10 Gbps	SFP+	40km	Duplex Fiber	SMF	LC (PC or UPC)
GLC-T	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45
GLC-TE	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45

Transceiver Module Compatibility:

Transceiver	Data Rate	Form Factor	Max Reach	Cable Type	Media	Connector Type
GLC-BX-D	1 Gbps	SFP	10km	Single-strand Fiber	SMF	LC (PC or UPC)
GLC-BX-U	1 Gbps	SFP	10km	Single-strand Fiber	SMF	LC (PC or UPC)
GLC-EX-SMD	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)
GLC-SX-MM-RGD	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)
GLC-LX-SM-RGD	1 Gbps	SFP	10km	Duplex Fiber	SMF	LC (PC or UPC)
GLC-ZX-SM-RGD	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)
GLC-SX-MMD	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)
GLC-LH-SMD	1 Gbps	SFP	10km	Duplex Fiber	SMF	LC (PC or UPC)
GLC-ZX-SMD	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)
CWDM-SFP-XXXX	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)
SFP-H10GB-CU1-5M	10 Gbps	SFP+	1.5m	Preterminated cable	DAC	N/A
SFP-H10GB-CU2M	10 Gbps	SFP+	2m	Preterminated cable	DAC	N/A
SFP-H10GB-CU2-5M	10 Gbps	SFP+	2.5m	Preterminated cable	DAC	N/A

