



IE-9320-22S2C4X-A DataSheet

Cisco IE-9320-22S2C4X-A industrial Ethernet switch, IE9300 series rugged Layer 3 fiber switch with 4 × 10G SFP+, high reliability for substations, automation, and critical infrastructure.

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IE-9320-22S2C4X-A Description

The Cisco Catalyst IE-9320-22S2C4X-A is a high-performance, rugged Layer 3 industrial Ethernet switch built for demanding mission-critical applications. Equipped with 22 SFP fiber downlink ports, 2 dual-media combo ports, and 4 high-speed 10G SFP+ uplinks, it supports robust networking in utility substations, industrial automation, and intelligent infrastructure. With 128 Gbps switching bandwidth, 95.23 Mpps forwarding rate, StackWise stacking, and advanced timing (GNSS, IRIG-B), the IE-9320-22S2C4X-A enables secure, scalable, and precise networking in the harshest industrial environments.

Product Highlights

Uplink Ports

Forwarding rate

Switching Bandwidth

Quick Specs

Parameter	Value
Total Ports	28

Downlink Ports	22 × 100/1000M SFP + 2 × Dual-Media (SFP or RJ45)
Uplink Ports	4 × 1/10G SFP+
Switching Bandwidth	128 Gbps (full-duplex)
Forwarding Bandwidth	64 Gbps
Forwarding Rate	95.23 Mpps
Number of Queues/Port	8 egress
Unicast MAC Addresses	24,000
DRAM	8 GB
Flash	8 GB (2.5 GB user accessible)
Power Supply	Dual AC, hot-swappable, redundant
Operating Temp.	-40°C to 75°C

Key Features

Industrial-Grade Ruggedness

Works in -40°C to 75°C with resistance to vibration, shock, and EMI, perfect for substations and transportation.

Flexible High-Density Connectivity

22 SFP downlinks, 2 dual-media ports, and 4 × 10G SFP+ uplinks support both fiber and copper deployment.

Advanced Timing & Synchronization

Integrated GNSS, IRIG-B (analog/digital), and IEEE 1588v2 PTP for precision clocking in automation and energy applications.

StackWise Hardware Stacking

Supports stacking up to 4 units for easy expansion, centralized management, and network failover.

Comprehensive Security Features

Secure Boot, Trust Anchor, MACsec-128 encryption, dynamic ARP inspection, flexible NetFlow, and rich ACLs.

Full Industrial Protocol Suite

Natively supports PROFINET, EtherNet/IP (CIP), Modbus TCP, HSR, PRP, REP, MRP, and more for integration with modern industrial and SCADA systems.

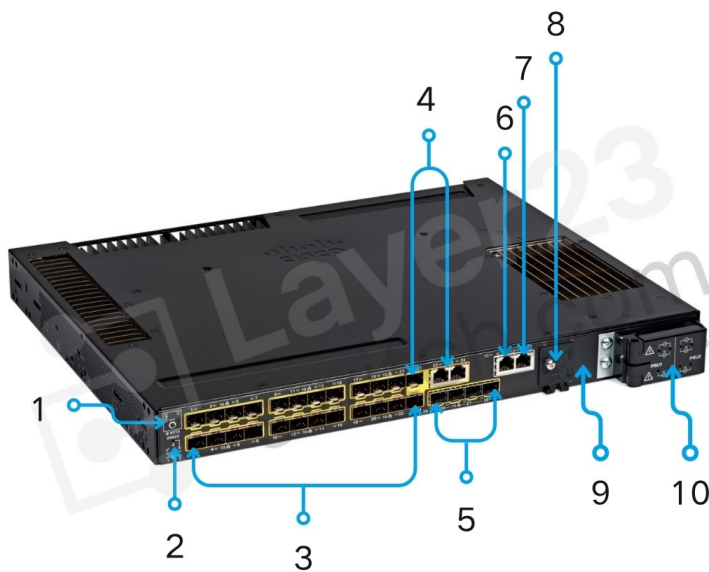
Rugged Industrial Ethernet Switch Product Comparison

Parameter	IE-9320-22S2C4X-A	IE-9320-24T4X-A	IE-9320-24P4X-A
Total Ports	28	28	28
Downlink Ports	22 SFP + 2 Dual-Media	24 × 10/100/1000M RJ45	24 × 10/100/1000M PoE+ RJ45
Uplink Ports	4 × 1/10G SFP+	4 × 1/10G SFP+	4 × 1/10G SFP+
Switching Bandwidth	128 Gbps	128 Gbps	128 Gbps
Forwarding Bandwidth	64 Gbps	64 Gbps	64 Gbps
Forwarding Rate	95.23 Mpps	95.23 Mpps	95.23 Mpps
DRAM	8 GB	8 GB	8 GB
Flash	8 GB	8 GB	8 GB
Stacking Support	Yes	Yes	Yes
Timing Features	GNSS, IRIG-B, PTP	GNSS, IRIG-B, PTP	GNSS, IRIG-B, PTP
Operating Temp.	-40°C to 75°C	-40°C to 75°C	-40°C to 75°C
Power Supply	Dual AC, redundant	Dual AC, redundant	Dual AC, redundant
Weight	12.7 lb (5.76 kg)	9.5 lb (4.3 kg)	9.7 lb (4.4 kg)

IE-9320-22S2C4X-A Front Panel Overview

The illustrations in this section provide an overview of the variety of components available on the various switch models in this product family. Not all models are illustrated.

1	Display mode button	6	Alarms
2	Express Setup button	7	RJ-45 console port
3	Ethernet SFP downlinks	8	(Beneath cover) Micro-USB console port, USB-A host port, and SD slot
4	Dual-media downlink ports	9	Stacking interface (IE9320 switches only)
5	Ethernet SFP uplinks	10	AC/DC power input



Specification

Parameter	Value	Parameter	Value
Model	IE-9320-22S2C4X-A	Series	Catalyst IE9300 Rugged

Parameter	Value	Parameter	Value
Total Ports	28	Downlink Ports	22 × 100/1000M SFP + 2 × Dual-Media (SFP/RJ45)
Uplink Ports	4 × 1/10G SFP+	Switching Bandwidth	128 Gbps (full-duplex)
Forwarding Bandwidth	64 Gbps	Forwarding Rate	95.23 Mpps
Number of Queues/Port	8 egress	Unicast MAC Addresses	24,000
IGMP Multicast Groups	1,000	VLAN IDs	4,096
Active VLANs	1,024	IPv4 Routes	7,000 indirect / 8,192 direct
IPv6 Routes	1,522 indirect	Stacking Support	Yes (up to 4 units)
DRAM	8 GB	Flash Memory	8 GB (2.5 GB user accessible)
SD Card Slot	Yes, 16 GB (optional)	Alarm Inputs	4 dry-contact
Alarm Outputs	1 dry-contact relay	Console Ports	RS-232 (RJ-45), Micro USB
USB Host Port	USB-A	Power Supply	Dual AC, hot-swappable, redundant
Mounting	1RU rack-mount, wall-mount, ETSI	Dimensions (HxWxD)	1.72 × 17.5 × 14.0 in (43.7 × 444.5 × 355.6 mm)
Weight	12.7 lb (5.76 kg)	Operating Temperature	-40°C to 75°C
Storage Temperature	-40°C to 85°C	Operating Humidity	5% to 95% (non-condensing)
Max Altitude	15,000 ft (4,572 m)	Timing Features	GNSS, IRIG-B, IEEE 1588v2 PTP
Industrial Protocols	PROFINET, EtherNet/IP (CIP), Modbus TCP, HSR, PRP, REP, MRP	Compliance	IEC 61850-3, IEEE 1613, EN 50121-4, ATEX
Certifications	cULus, CE, RCM, EAC, KC, UKCA, CB, NOM		

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