IE-9320-22S2C4X-E DataSheet

Cisco IE-9320-22S2C4X-E industrial Ethernet switch, IE9300 series Layer 3 rugged fiber switch with 4 × 10G SFP+, for substation, automation, and harsh environment networks.

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IE-9320-22S2C4X-E Description

The Cisco Catalyst IE-9320-22S2C4X-E is an advanced Layer 3 industrial Ethernet switch, purpose-built for harsh and mission-critical environments. With 22 SFP downlink ports, 2 dual-media combo ports, and 4 high-speed 10G SFP+ uplinks, this model provides superior flexibility and switching performance. The IE-9320-22S2C4X-E supports precision timing with integrated GNSS and IRIG-B, StackWise stacking, and full industrial protocol support, making it ideal for smart grid, industrial automation, and intelligent transportation applications that require secure, resilient, and high-bandwidth connectivity.

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/RJ45)
Uplink Ports	4 × 1/10G SFP+
Switching Bandwidth	128 Gbps (full-duplex)
Forwarding Bandwidth	64 Gbps
Forwarding Rate	95.23 Mpps
DRAM	8 GB
Flash	8 GB (2.5 GB user accessible)
Power Supply	Dual AC/DC, hot-swappable, redundant

Key Features

Ultra-Rugged, Future-Proof Design

Operates reliably from -40°C to 75°C, with resistance to vibration, shock, and electromagnetic interference. Perfect for substations, transportation, and outdoor cabinets.

High-Density, Flexible Connectivity

22 SFP downlinks, 2 dual-media (SFP/RJ45) ports, and 4 × 10G SFP+ uplinks offer versatile fiber and copper network design options for modern industrial networks.

Industry-Leading Precision Timing

Supports GNSS (GPS/GLONASS/BeiDou), IRIG-B (analog/digital), and IEEE 1588v2 PTP for sub-microsecond time synchronization in automation and utility applications.

StackWise Scalable Architecture

Hardware-based stacking of up to 4 units ensures easy expansion, centralized management, and resilient failover for evolving industrial network demands.

Comprehensive Security Suite

Secure Boot, Trust Anchor, MACsec-128 encryption, dynamic ARP inspection, and flexible NetFlow deliver advanced cyber and network security for critical assets.

Full Industrial Protocol Support

Native compatibility with PROFINET, EtherNet/IP (CIP), Modbus TCP, HSR/PRP, REP, and MRP, enabling seamless integration with industrial control systems and SCADA environments.

Rugged Industrial Ethernet Switch Product Comparison

Parameter	IE-9320-22S2C4X-E	IE-9320-24T4X-E	IE-9320-24P4X-E
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/DC, redundant	Dual AC/DC, redundant	Dual AC/DC, redundant
Weight	12.7 lb (5.76 kg)	9.5 lb (4.3 kg)	9.7 lb (4.4 kg)

IE-9320-22S2C4X-E 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
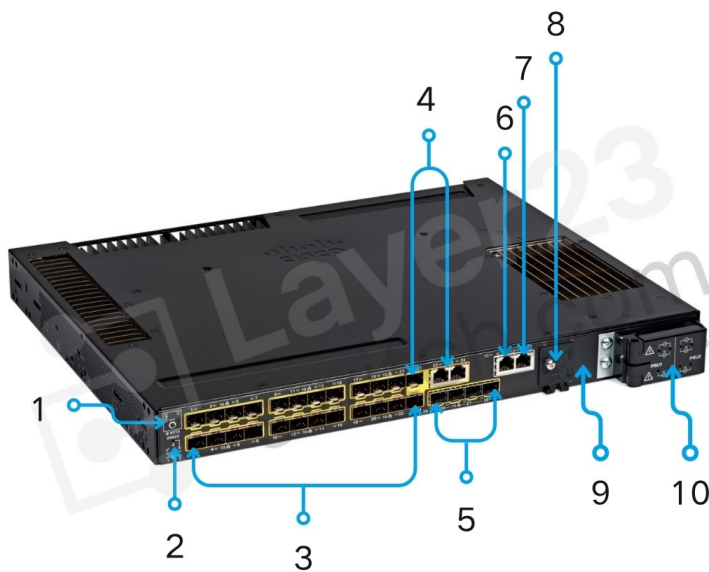
Specification

Parameter	Value	Parameter	Value
Model	IE-9320-22S2C4X-E	**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/DC, 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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