



IE-3100-8T4S-E DataSheet

Cisco IE-3100-8T2S-E: 10-port Gigabit industrial switch with dual SFP uplinks, -40 °C to +70 °C, dual DC 9.6-60 V, REP/MRP <50 ms recovery—ideal for OT networks

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IE-3100-8T4S-E Description

The Cisco Catalyst IE-3100-8T4S-E industrial Ethernet switch delivers robust, full-Gigabit performance for demanding industrial and extended enterprise networks. With 8 Gigabit copper ports and 4 SFP uplinks, the IE3100-8T4S-E supports reliable, high-speed connectivity in space-constrained, harsh environments. Powered by Cisco IOS XE and the Network Essentials license, this managed switch features advanced security, automation, and industrial protocol support (CIP, PROFINET, Modbus). The compact DIN-rail mountable design, wide operating temperature range (-40°C to 75°C), and redundant DC power inputs make it ideal for factory automation, utilities, and smart city deployments. As part of the IE3100 Rugged Series, it integrates seamlessly with Cisco Catalyst Center for centralized management, supporting zero-touch deployment and flexible network expansion.

Product Highlights

Gigabit Ethernet Ports

SFP Ports

DRAM

Model Meaning

Parameter	Value
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Total Ports	12 (8 × 1G RJ45 + 4 × 1G SFP)
Uplink Ports	4 × 1G SFP
Downlink Ports	8 × 1G RJ45
Switching Capacity	Line rate for all ports and packet sizes
Forwarding Rate	Line rate for all ports and packet sizes
MAC Addresses	8,000
VLANs	256
DRAM	4 GB
Flash	1.5 GB
Software License	Network Essentials

Key Features

Rugged Industrial Ethernet Switch Product Comparison

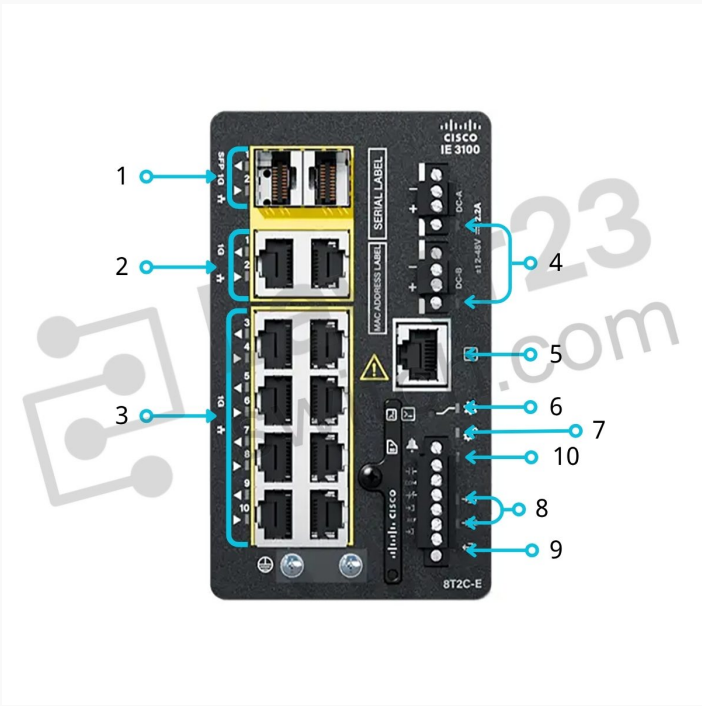
Parameter	IE-3100-8T4S-E	IE-3100-8P2C-E	IE-3200-8T2S-E
Total Ports	12	10	10
Downlink Ports	8 × 1G RJ45	8 × 1G RJ45 (PoE/PoE+)	8 × 1G RJ45
Uplink Ports	4 × 1G SFP	2 × 1G Combo (RJ45/SFP)	2 × 1G SFP
PoE/PoE+ Support	No	Yes (up to 240W)	No
Switching Capacity	Line rate all ports	Line rate all ports	Line rate all ports
MAC Addresses	8,000	8,000	8,000
VLANs Supported	256	256	256
Mounting	DIN Rail	DIN Rail	DIN Rail

Software License	Network Essentials	Network Essentials	Network Essentials
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IE-3100-8T4S-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.

Number	Feature	Number	Feature
1	Dual-media SFP port LEDs	6	Express Setup LED
2	Dual-media copper port LEDs	7	System LED
3	1000BASE-T port LEDs	8	Alarm input LEDs
4	Power connector LED	9	Alarm output LED
5	Management console LED	10	PoE Status LED Note This LED is present in PoE models only.



Specification

Parameter	Value	Parameter	Value
Model	IE-3100-8T4S-E	Ports	8×1G RJ45, 4×1G SFP
PoE Support	No	Mounting	DIN rail
Dimensions	5.00×3.00×4.33 in (12.70×7.62×11.00 cm)	Weight	1.9 lb (0.86 kg)
Power Input	Dual DC 9.6-60V	Power Consumption	17.8W
MAC Address Table	8,000	VLANs	256
Forwarding Rate	Line rate, all packet sizes	Queues	8 egress
Alarm I/O	2 dry-contact alarm inputs	Console Ports	1×RS-232 (RJ-45), 1×Micro USB
Operating Temp.	-40°C to +75°C	Storage Temp.	-40°C to +85°C
Software License	Network Essentials	DRAM	4 GB
SD Card	1/4/16 GB (optional)	Management	WebUI, CLI, SNMP, Cisco Catalyst Center
Protocols	EtherNet/IP, PROFINET, Modbus	Certifications	IEC 62443-4-1/4-2, EN 55032A, EN 61000-6-2

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