



IE-4000-8GS4G-E DataSheet

Cisco IE-4000-8GS4G-E is an industrial Ethernet switch featuring 8 SFP fiber ports and 4 GE combo uplinks. Built for harsh environments, ideal for secure, high-speed fiber networking.

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IE-4000-8GS4G-E Description

IE-4000-8GS4G-E is a Cisco Industrial Ethernet 4000 Series switch equipped with 8 Gigabit SFP fiber ports and 4 Gigabit combo uplinks (SFP/RJ45). This all-fiber industrial switch delivers reliable, high-speed connectivity for mission-critical networks in manufacturing, transportation, energy, and smart city applications. Designed for harsh environments, the IE-4000-8GS4G-E ensures secure and scalable fiber aggregation with robust Cisco IOS features. The model supports industrial protocols, advanced security, and simple management—ideal for future-proofing your fiber-based industrial networks.

Product Highlights

Ethernet Ports
Combo ports(SFP/RJ-45)
Operating Temperature

Quick Specs

| Key Parameter | Value |
|-----------------|-------|
| SFP Fiber Ports | 8 |

| | |
|---------------------|-----------------|
| Combo Uplink Ports | 4 |
| Copper Ports | 0 |
| PoE/PoE+ Ports | 0 |
| Switching Capacity | 20 Gbps |
| DIN Rail/Rack Mount | DIN Rail |
| Operating Temp. | -40 to 70°C |
| Power Supply | Redundant DC |
| Software | LAN Base |
| Form Factor | Compact, Rugged |

Key Features

Rugged Industrial Ethernet Switch Product Comparison

| Model | SFP Fiber Ports | Copper Ports | Combo Uplink Ports | PoE Ports | Switching Capacity | Operating Temp. | Power Supply | Software | Form Factor |
|------------------------|-----------------|--------------|--------------------|-----------|--------------------|-----------------|--------------|----------|-------------|
| IE-4000-8GS4G-E | 8 | 0 | 4 | 0 | 20 Gbps | -40 to 70°C | Redundant DC | LAN Base | DIN Rail |
| IE-4000-8GT4G-E | 0 | 8 | 4 | 0 | 20 Gbps | -40 to 70°C | Redundant DC | LAN Base | DIN Rail |
| IE-4000-4GS8GP4G-E | 4 | 0 | 4 | 8 | 20 Gbps | -40 to 70°C | Redundant DC | LAN Base | DIN Rail |

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 | SFP module slots (uplink ports) | 6 | Power connector DC-B |
| 2 | 10/100/1000 Ethernet ports (downlink ports) | 7 | Power connector DC-A |
| 3 | Flash memory card slot | 8 | RJ-45 console port |
| 4 | Alarm connector | 9 | USB mini-Type B (console) port1 |
| 5 | Protective ground connection | 10 | Dual-purpose ports (uplink ports) |



Specification

| Parameter | Value | Parameter | Value |
|-----------------|-----------------|--------------------|--------------------------|
| Model | IE-4000-8GS4G-E | Series | Industrial Ethernet 4000 |
| SFP Fiber Ports | 8 | Combo Uplink Ports | 4 (GE SFP/RJ45) |

| Parameter | Value | Parameter | Value |
|---------------------|-------------------------------------|-----------------------|----------------------------------|
| Copper Ports | 0 | PoE/PoE+ Ports | 0 |
| Switching Capacity | 20 Gbps | Forwarding Rate | Line rate for all ports |
| MAC Addresses | 16,000 | VLANs | 1,000 |
| IGMP Groups | 1,000 | Queues | 4 egress |
| Alarm Inputs | 2 | Alarm Outputs | 1 relay |
| Power Supply | Redundant DC (9.6–60VDC) | Max Input Current | 5.0A |
| Power Consumption | 42W (excl. PoE) | Operating Temperature | -40 to 70°C |
| Storage Temperature | -40 to 85°C | Humidity | 5%–95% non-condensing |
| Dimensions (H×W×D) | 155.4×155.4×129.2 mm | Weight | 2.88 kg |
| Mounting | DIN Rail | Software | LAN Base |
| Removable SD Card | 1GB included | Flash Memory | 128MB onboard |
| DRAM | 1GB | Console Ports | RJ45, Mini-USB |
| Layer 2 Features | IEEE 802.1Q, PVST+, REP, QinQ, etc. | Security | 802.1x, DAI, DHCP Snooping, SSH |
| QoS | Ingress policing, AutoQoS | Redundancy | REP, MRP, PRP, HSR |
| Protocols | CIP, PROFINET, Modbus TCP | Industrial Standards | EN 61000, IEEE 1613, IEC 61850-3 |
| Certifications | UL, CSA, EN 60950-1, ATEX, DNV | Warranty | 5 years |

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