



IE-4010-16S12P-E DataSheet

Cisco IE-4010-16S12P-E offers 16 SFP fiber, 12 PoE/PoE+ ports, and 4 SFP uplinks for secure, high-density industrial Ethernet networks in extreme environments.

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IE-4010-16S12P-E Description

IE-4010-16S12P-E is a Cisco Industrial Ethernet 4010 Series rack-mount switch, featuring 16 SFP fiber access ports, 12 PoE/PoE+ copper ports, and 4 SFP uplink ports. Designed for mission-critical industrial applications, it combines high-density fiber aggregation with secure PoE device connectivity. IE-4010-16S12P-E supports advanced Cisco IOS security, comprehensive industrial protocols, and operates in extreme environments—ideal for smart factories, utilities, transportation, and resilient backbone networks needing robust, scalable, and managed Ethernet infrastructure.

Product Highlights

Ethernet Ports

PoE Ports

Switching Capacity

Quick Specs

| Key Parameter | Value |
|---------------|-------|
| SFP Ports | 16 |

| | |
|--------------------|-----------------|
| Copper PoE Ports | 12 |
| SFP Uplink Ports | 4 |
| Switching Capacity | 56 Gbps |
| Forwarding Rate | 41.67 Mpps |
| Operating Temp. | -40 to 75°C |
| Power Supply | Redundant AC/DC |
| Software | LAN Base |
| Mounting | 19" Rack |

Key Features

Rugged Industrial Ethernet Switch Product Comparison

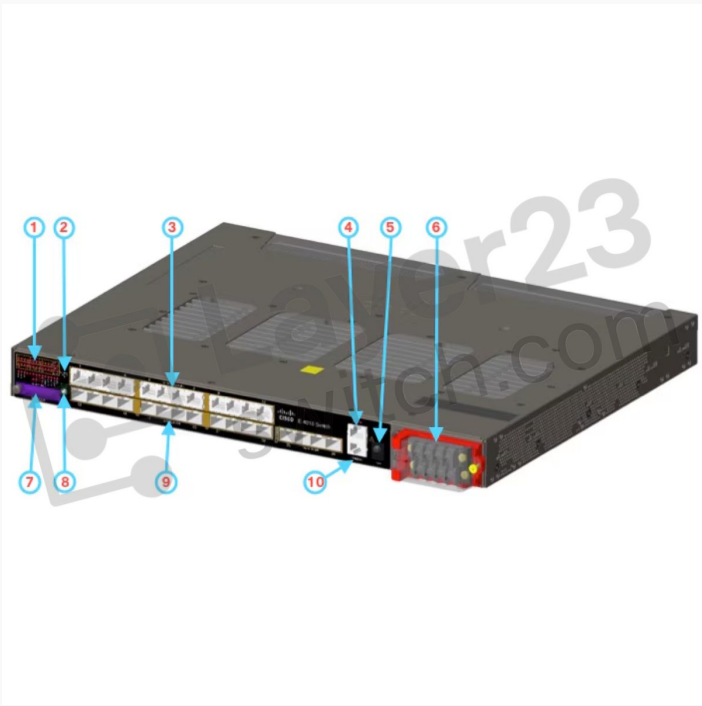
| Model | SFP Access Ports | Copper Ports | SFP Uplink Ports | PoE Ports | Switching Capacity | Forwarding Rate | Operating Temp. | Power Supply | Software | Mounting |
|--------------------------|------------------|--------------|------------------|-----------|--------------------|-----------------|-----------------|-----------------------|----------|----------|
| IE-40 10-16S12P-E | 16 | 12 | 4 | 12 | 56 Gbps | 41.67 Mpps | -40 to 75°C | Dual AC/DC, redundant | LAN Base | 19" Rack |
| IE-40 10-4S24P-E | 0 | 24 | 4 | 24 | 56 Gbps | 41.67 Mpps | -40 to 75°C | Dual AC/DC, redundant | LAN Base | 19" Rack |

| | | | | | | | | | | |
|-----------------|---|---|---|---|---------|-----------|-------------|--------------|----------|----------|
| IE-4000-8GS4G-E | 8 | 0 | 4 | 0 | 20 Gbps | Line rate | -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 | LEDs | 6 | Power-input terminal |
| 2 | Express Setup button | 7 | Flash memory card slot |
| 3 | Twelve 10/100/1000 PoE/PoE+ Ports (Downlinks) | 8 | Display mode button |
| 4 | Alarm port | 9 | Twelve 100/1000 SFP Ports |
| 5 | USB (mini-Type B) console port | 10 | Console port |



Specification

| Parameter | Value | Parameter | Value |
|-----------------------------|--|------------------------------|-------------------------------------|
| Model | IE-4010-16S12P-E | Series | Industrial Ethernet 4010 |
| SFP Access Ports | 16 | Copper PoE/PoE+ Ports | 12 |
| SFP Uplink Ports | 4 (FE/GE) | Max PoE Budget | Up to 360W (dual PSU) |
| Switching Capacity | 56 Gbps | Forwarding Rate | 41.67 Mpps |
| MAC Addresses | 16,000 | VLANs | 1,000 |
| IGMP Groups | 1,000 | Queues | 4 egress |
| Layer 3 Routing | IPv4 Static, OSPF, EIGRP, etc. (w/ upgrade) | IPv6 Support | Yes |
| Industrial Protocols | CIP, PROFINET, Modbus TCP, SCADA | Time Sync | IEEE 1588 PTPv2 |
| Redundancy | REP, PRP, MRP, HSR, EtherChannel | SD Card | 1 GB (included) |
| Alarm Inputs | 4 | Alarm Outputs | 1 relay |
| Power Supply | Dual AC/DC redundant | Max Input Current | See datasheet (depends on PSU) |
| Power Consumption | Max 70W (excl. PoE) | Operating Temperature | -40 to 75°C |
| Storage Temperature | -40 to 85°C | Humidity | 5%-95% non-condensing |
| Dimensions (H×W×D) | 1.75 x 17.5 x 14 in. (44.5 x 44.5 x 35.6 cm) | Weight | ~12.7 lbs (5.78 kg) |
| Mounting | 19" Rack | Software | LAN Base (upgradeable) |
| Management | Web GUI, CLI, Cisco Catalyst Center | Security | 802.1x, DAI, DHCP Snooping, MACsec |
| QoS | Ingress policing, AutoQoS | Certifications | UL, CSA, EN 60950-1, ATEX, DNV, TAA |
| Warranty | 5 years | MTBF | 415,160 hours |

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