

IE-3010-16S-8PC Datasheet

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Overview

IE-3010-16S-8PC is the Cisco IE 3010 Switch, providing 16 100SFP, 8 10/100 PoE, 2 GE combo uplinks, no PSU included. Cisco Industrial Ethernet 3010 Series (IE 3010) is a family of rack-mount L2/L3 switches provide fiber SFP layer 3 aggregation and Power over Ethernet (PoE) configurations in the harsh industrial environment. It brings Cisco's leadership in switching to industrial Ethernet application with innovative features, robust security, and end-to-end Ethernet in the industrial network.

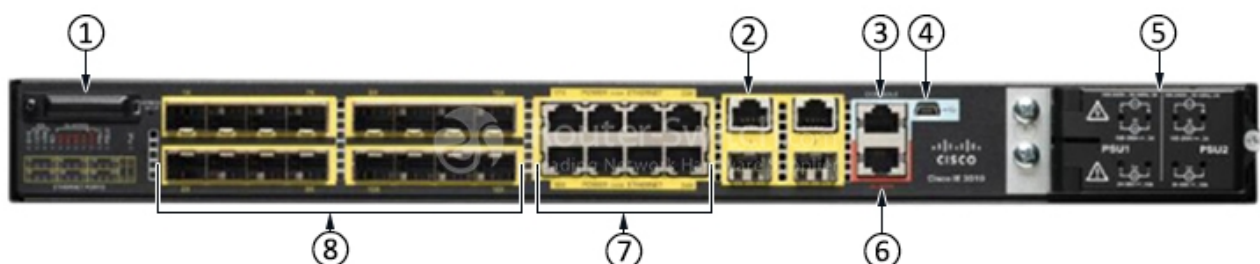
Quick Spec

Table 1 shows the quick spec.

Model	IE-3010-16S-8PC
Ports	16 Fast Ethernet SFP ports, 8 10/100BASETX/PoE ports, and 2 dual-purpose Gigabit Ethernet uplink ports. (each dual-purpose uplink port has one 10/100/1000 Ethernet port and one SFP-based Gigabit Ethernet port, one port active)
Performance and scalability	• Wire-speed switching, 8 Gbps switching fabric • Forwarding rate based on 64-byte packets: 6.5 Mpps • 256 MB DDR2 SDRAM • 1 GB SD Flash memory (128 MB enabled) • Layer 2 LAN Base image supports 255 Vlans, 2000 MAC addresses, 256 IGMP groups. • Layer 3 IP Services image supports 1000 Vlans, 3000 MAC addresses, 1000 IGMP groups, 3000 unicast routes • Configurable maximum transmission unit (MTU) of up to 9000 bytes, with a maximum Ethernet frame size of 9018 bytes (jumbo frames) for bridging on Gigabit Ethernet ports, and up to 1998 bytes for bridging on both Fast Ethernet ports
Dimensions (H x W x D)	1.75 x 17.5 x 14.0 in. (4.45 x 44.5 x 35.6 cm), 1RU (rack unit) height
Weight	10 lb (4.5kg) (without power supply unit)

Product Details

Figure 1 shows the front view of this switch.



Note:

(1)	SD flash memory card slot	(5)	Power-input terminal
(2)	Dual purpose ports	(6)	Alarm port
(3)	RJ-45 console port	(7)	10/100 PoE ports
(4)	USB (mini-Type B) console port	(8)	100BASE-FX SFP ports

Figure 2 shows the rear view.



Supported Products

Table 2 shows the accessories.

Model	Description
PWR-RGD-LOW-DC/IA	Low DC (24/48V) power supply module for the IE-3010 switch (available Q1 CY2011)
PWR-RGD-AC-DC/IA	High AC/DC (88-300VDC/85-264VAC) power supply module for the IE-3010 switch
SD-IE-1GB	Spare 1 GB SD flash memory card
CAB-CONSOLE-RJ45	Spare console cable 6 ft with RJ45 and DB9F
CAB-CONSOLE-USB	Spare console cable 6 ft with USB Type A and mini-B
GLC-SX-MM-RGD	Rugged Gigabit Ethernet SFP, LC connector, multimode fiber, 220-550 m
GLC-LX-SM-RGD	Rugged Gigabit Ethernet SFP, LC connector, single mode fiber, 550 m - 10 km
GLC-ZX-SM-RGD	Rugged Gigabit Ethernet SFP, LC connector, single mode fiber, 70 km
GLC-FE-100FX-RGD	Rugged Fast Ethernet SFP, LC connector, multimode fiber, 2 km
GLC-FE-100LX-RGD	Rugged Fast Ethernet SFP, LC connector, single mode fiber, 10 km

Compare to Similar Items

Table 3 shows the comparison.

Model	IE-3010-24TC	IE-3010-16S-8PC
Ports	24 10/100BASETX ports and two dual-purpose Gigabit Ethernet uplink ports. (each dual-purpose uplink port has one 10/100/1000 Ethernet port and one SFP-based Gigabit Ethernet port, one port active)	16 Fast Ethernet SFP ports, 8 10/100BASETX/PoE ports, and 2 dual-purpose Gigabit Ethernet uplink ports. (each dual-purpose uplink port has one 10/100/1000 Ethernet port and one SFP-based Gigabit Ethernet port, one port active)

Performance and scalability	• Wire-speed switching, 8 Gbps switching fabric • Forwarding rate based on 64-byte packets: 6.5 Mpps • 256 MB DDR2 SDRAM • 1 GB SD Flash memory (128 MB enabled) • Layer 2 LAN Base image supports 255 Vlans, 2000 MAC addresses, 256 IGMP groups. • Layer 3 IP Services image supports 1000 Vlans, 3000 MAC addresses, 1000 IGMP groups, 3000 unicast routes • Configurable maximum transmission unit (MTU) of up to 9000 bytes, with a maximum Ethernet frame size of 9018 bytes (jumbo frames) for bridging on Gigabit Ethernet ports, and up to 1998 bytes for bridging on both Fast Ethernet ports	• Wire-speed switching, 8 Gbps switching fabric • Forwarding rate based on 64-byte packets: 6.5 Mpps • 256 MB DDR2 SDRAM • 1 GB SD Flash memory (128 MB enabled) • Layer 2 LAN Base image supports 255 Vlans, 2000 MAC addresses, 256 IGMP groups. • Layer 3 IP Services image supports 1000 Vlans, 3000 MAC addresses, 1000 IGMP groups, 3000 unicast routes • Configurable maximum transmission unit (MTU) of up to 9000 bytes, with a maximum Ethernet frame size of 9018 bytes (jumbo frames) for bridging on Gigabit Ethernet ports, and up to 1998 bytes for bridging on both Fast Ethernet ports
Dimensions (H x W x D)	1.75 x 17.5 x 14.0 in. (4.45 x 44.5 x 35.6 cm), 1RU (rack unit) height	1.75 x 17.5 x 14.0 in. (4.45 x 44.5 x 35.6 cm), 1RU (rack unit) height
Weight	9.1 lb (4.1kg) (without power supply unit)	10 lb (4.5kg) (without power supply unit)

Ordering Guide

-  [\[PDF\] Cisco Industrial Ethernet Switches Ordering Guide](#)
-  [\[PDF\] Simple Cisco Industrial Ethernet Switches \(IE 4000, IE 2000 included\) Selection Guides](#)

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Specification

IE-3010-16S-8PC Specification	
Ports	16 Fast Ethernet SFP ports, 8 10/100BASETX/PoE ports, and 2 dual-purpose Gigabit Ethernet uplink ports. (each dual-purpose uplink port has one 10/100/1000 Ethernet port and one SFP-based Gigabit Ethernet port, one port active)
Performance and scalability	• Wire-speed switching, 8 Gbps switching fabric • Forwarding rate based on 64-byte packets: 6.5 Mpps • 256 MB DDR2 SDRAM • 1 GB SD Flash memory (128 MB enabled) • Layer 2 LAN Base image supports 255 Vlans, 2000 MAC addresses, 256 IGMP groups. • Layer 3 IP Services image supports 1000 Vlans, 3000 MAC addresses, 1000 IGMP groups, 3000 unicast routes • Configurable maximum transmission unit (MTU) of up to 9000 bytes, with a maximum Ethernet frame size of 9018 bytes (jumbo frames) for bridging on Gigabit Ethernet ports, and up to 1998 bytes for bridging on both Fast Ethernet ports
Dimensions (H x W x D)	1.75 x 17.5 x 14.0 in. (4.45 x 44.5 x 35.6 cm), 1RU (rack unit) height
Weight	10 lb (4.5kg) (without power supply unit)
Connectors and cabling	10/100 ports: • 10/100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 unshielded twisted pair (UTP) or shielded twisted pair (STP) cabling • 100FX SFP ports (IE-3010-16S-8PC only): • 100BASE-FX, -LX, -ZX, and -BX10: Duplex LC receptacle fiber connectors (multimode and single mode) Gigabit ports: • 10/100/1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP/STP cabling • 1000BASE-SX, -LX/LH, -ZX, and -BX10: Duplex LC receptacle fiber connectors (multimode and single-mode fiber) Console ports: • Management console port: RJ45 connector for serial connection • Management console port: USB mini type B connector for USB connection

Indicators	• Per-port status LEDs: Link integrity, port disabled, and activity indications • System-status LED: System activity, system integrity, • Alarm-in status LEDs: Four alarm inputs status indicator • Alarm-out status LED: Alarm status indicator • Power supply unit LED: Power output integrity and power supply presence • PoE (IE-3010-16S-8PC only): PoE activity, PoE integrity, and PoE disabled • SD Flash LED: SD flash integrity and SD flash presence • RS232 LED: RS232 console selection • USB LED: USB console selection
Environmental ranges	• -40 °F to 140°F (-40 to +60°C) continuous operating temperature range • -40 °F to 185°F (-40 to +85°C) type test for 16 hours at 85°C • Operating altitude: 3000 m (9843 ft) at 40°C (104°F) • Operating relative humidity: 5% to 95% noncondensing
Storage and transportation	• Temperature: -40 °F to 185°F (-40 to +85 °C) • Altitude: 15,000 ft (4570 m) • Relative humidity: 5% to 95% noncondensing
Mean time between failure (MTBF)	• Cisco IE-3010-24TC: 207,731 hrs • Cisco IE-3010-16S-8PC: 230,112 hrs
Warranty	Five years limited warranty

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