IE-3000-8TC
Datasheet

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Overview

IE-3000-8TC is the Cisco IE 3000 Switch, providing 8 × 10/100 + 2 × T/SFP. Cisco Industrial Ethernet 3000 Series (IE 3000 Series) is a family of Layer 2 and Layer 3 switches that bring Cisco's leadership in switching to Industrial Ethernet applications with Innovative features, robust security, and superior ease of use. The Cisco IE 3000 Series features:

- Industrial design and compliance
- Tools for easy deployment, management, and replacement
- Network security based on open standards
- Integration of IT and industrial automation networks

Quick Spec

Table 1 shows the quick spec.

Model	IE-3000-8TC
Ports	8 Ethernet 10/100 ports and 2 dual-purpose uplinks (each dual-purpose uplink port has one active port either 10/100/1000 copper or SFP fiber
Supported Expansion Modules	Support up to two expansion modules with various combinations
Power	DC input range 18VDC-60VDC
Software	Layer 2 LAN Base Image
Dimensions (H x W x D)	6.0" W x 5.8" H x 4.4" D (152mm W x 147mm H x 112mm D)
Weight	4.4 lb (2.0 kg)

Product Details

The Cisco IE 3000 Series is an ideal product for Industrial Ethernet applications, including factory automation, energy and process control, and Intelligent Transportation Systems (ITSs).

The Cisco IE 3000 offers:

●Design for Industrial Ethernet applications, including extended environmental, shock/vibration, and surge ratings; a complete set of power input options; convection cooling; and DIN-rail or 19" rack mounting

- Support for Power over Ethernet (PoE) up to 15.4W per port
- Support for Power over Ethernet Plus (PoE+) for the PoE+ capable devices up to 30W per port

●Easy setup and management using Cisco DNATM Center software and the Cisco Device Manager web interface and supporting tools, including Cisco Network Assistant (CNA) and Cisco Prime LMS 4.2

- Easy switch replacement using removable memory, allowing the user to replace a switch without having to reconfigure
- High availability, guaranteed determinism, and reliable security using Cisco IOS® Software
- Recommended software configurations for industrial applications that can be applied at the touch of a button
- Compliance to a wide range of Industrial Ethernet specifications covering industrial automation, ITS, substation, railway, and other markets
- Support for IEEE1588v2, a precision timing protocol with nanosecond-level precision for high-performance applications
- Improved ring resiliency with the support of Resilient Ethernet Protocol (REP)
- Transparent IT integration with the support of Layer 3 routing protocols (IP Services)
- PROFINET v2 certification, with PROFINET conformance class B compliance

Supported Products

Table 2 shows the expansion modules and accessories.

Model	Description
IEM-3000-8TM=	• Expansion Copper module for Cisco IE-3000-4TC and IE-3000-8TC switches • 8 10/100 TX ports
IEM-3000-8FM=	• Expansion Fiber module for Cisco IE-3000-4TC and IE-3000-8TC switches • 8 100 FX ports
IEM-3000-4SM=	• Expansion SFP module for Cisco IE-3000-4TC and IE-3000-8TC switches • 4 100M SFP ports
IEM-3000-8SM=	• Expansion SFP module for Cisco IE-3000-4TC and IE-3000-8TC switches • 8 100M SFP ports
IEM-3000-4PC=	• Expansion PoE/PoE+ module for Cisco IE-3000-4TC and IE-3000-8TC switches • 4 10/100 PoE/PoE+ ports • External PoE power source (44-57 VDC for PoE/50-57 VDC for PoE+)
IEM-3000-4PC-4TC=	• Expansion PoE/PoE+ module for Cisco IE-3000-4TC and IE-3000-8TC switches • 4 non-PoE ports and 4 10/100 PoE/PoE+ ports • External PoE power source (44-57 VDC for PoE/50-57 VDC for PoE+)
PWR-IE50W-AC=	• Expansion power module for IE-3000-4TC and IE-3000-8TC switches
PWR-IE50W-AC-IEC=	• Expansion power module for IE-3000-4TC and IE-3000-8TC switches
PWR-IE65W-PC-AC=	• AC-DC, 54VDC power module to support 65 watts for PoE/PoE+ modules
PWR-IE65W-PC-DC=	• DC-DC, 54VDC power module to support 65 watts for PoE/PoE+ modules
GLC-TE	1000BASE-T SFP transceiver module for Category 5 copper wire
GLC-ZX-SM	1000BASE-ZX SFP
GLC-BX-U	1000BASE-BX SFP, 1310NM
SFP-GE-L	1000BASE-LX/LH SFP (DOM)
GLC-ZX-SMD	Cisco GLC-ZX-SMD 1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM
GLC-SX-MMD	Cisco GLC-SX-MMD 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM

Compare to Similar Items

Table 3 shows the comparison.

Model	IE-3000-4TC	IE-3000-8TC
Ports	4 Ethernet 10/100 ports and 2 dual-purpose uplinks (each dual-purpose uplink port has one active port either 10/100/1000 copper or SFP fiber	8 Ethernet 10/100 ports and 2 dual-purpose uplinks (each dual-purpose uplink port has 1 10/100/1000 Ethernet port and 1 SFP-based Gigabit Ethernet port, 1 port active)
Supported Expansion Modules	Each switch supports 2 Cisco modules, 1 Cisco IEM-3000-8FM= module, or 1 Cisco IEM-3000-8TM= module and 1 Cisco IEM-3000-8FM= module	Each switch supports 2 Cisco IEM-3000-8TM= modules, 1 Cisco IEM-3000-8FM= module, or 1 Cisco IEM-3000-8TM= module and 1 Cisco IEM-3000-8FM= module
Software	Layer 2 LAN Base Image	Layer 2 LAN Base image installed

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-3000-8TC Specification

Ports	8 Ethernet 10/100 ports and 2 dual-purpose uplinks (each dual-purpose uplink port has one active port either 10/100/1000 copper or SFP fiber
Supported Expansion Modules	Each switch supports 2 Cisco IEM-3000-8TM= modules, 1 Cisco IEM-3000-8FM= module, or 1 Cisco IEM-3000- 8TM= module and 1 Cisco IEM-3000-8FM= module
Power	DC input range 18VDC-60VDC
Software	Layer 2 LAN Base Image
Dimensions (H x W x D)	6.0"W x 5.8"H x 4.4"D (152mm W x 147mm H x 112mm D)
Weight	4.4 lb (2.0 kg)

Cisco IE 3000 Series switch hardware

Performance	• Wire-speed switching, 16 Gbps switching fabric • Forwarding rate based on 64-byte packets: 6.5 Mpps • 128 MB DRAM • 64 MB Compact Flash memory • Configurable up to 8000 MAC addresses (Layer 2) • Configurable up to 2000 MAC addresses (Layer 3) • Configurable up to 256 IGMP multicast groups (Layer 2) • Configurable up to 1000 IGMP groups and multicast routes (Layer 3) • Configurable up to 3,000 unicast routes (Layer 3) •Support jumbo frames up to 9018 bytes on Gigabit uplink port and mini-jumbo frame (system MTU) up to 1998 bytes on both 10/100 and 10/100/1000 ports
Connectors and cabling	• 10BASE-T ports: RJ-45 connectors, two-pair Category 3, 4, or 5 Unshielded Twisted-Pair (UTP) cabling • 100BASE-TX ports: RJ-45 connectors, two-pair Category 5 UTP cabling • 1000BASE-T ports: RJ-45 connectors, four-pair Category 5 UTP cabling • 1000BASE-SX, -LX/LH, -ZX SFP-based ports: LC fiber connectors (single/multimode fiber) • 100BASE-LX10, -FX: LC fiber connectors (single/multimode fiber)
Indicators	• Per-port status LED: Link integrity, disabled, activity, speed, full-duplex indications • System-status LED: System, link status, link duplex, link speed, indications
Dimensions (H x W x D)	• Cisco IE-3000-4TC, Cisco IE-3000-4TC-E: 6.0"W x 5.8"H x 4.4"D (152mm W x 147mm H x 112mm D) • Cisco IE-3000-8TC, Cisco IE-3000-8TC-E: 6.0"W x 5.8"H x 4.4"D (152mm W x 147mm H x 112mm D) • Cisco IEM-3000-8TM=: 3.5"W x 5.8"H x 4.4"D (89mm W x 147mm H x 112mm D) • Cisco IEM-3000-8FM=: 3.5"W x 5.8"H x 4.4"D (89mm W x 147mm H x 112mm D) • Cisco IEM-3000-4SM=: 3.5"W x 5.8"H x 4.4"D (89mm W x 147mm H x 112mm D) • Cisco IEM-3000-8SM=: 3.5"W x 5.8"H x 4.4"D (89mm W x 147mm H x 112mm D) • Cisco IEM-3000-4PC=: 3.5"W x 5.8"H x 4.4"D (89mm W x 147mm H x 112mm D) • Cisco IEM-3000-4PC-4TC=: 3.5"W x 5.8"H x 4.4"D (89mm W x 147mm H x 112mm D) • Cisco PWR-IE50W-AC=: 2.0"W x 5.8"H x 4.4"D (51mm W x 147mm H x 112mm D) • Cisco PWR-IE50W-AC-IEC=: 2.0"W x 5.8"H x 4.4"D (51mm W x 147mm H x 112mm D) • Cisco PWR-IE65W-PC-AC=: 2.6"W x 5.9"H x 4.6"D (66mm W x 150mm H x 117mm D) • Cisco PWR-IE65W-PC-DC=: 2.6"W x 5.9"H x 4.6"D (66mm W x 150mm H x 117mm D)
Weight	• Cisco IE-3000-4TC, Cisco IE-3000-4TC-E: 4.4 lb (2.0 kg) • Cisco IE-3000-8TC, Cisco IE-3000-8TC-E: 4.4 lb (2.0 kg) • Cisco IEM-3000-8TM=: 2.2 lb (1.0 kg) • Cisco IEM-3000-8FM=: 3.2 lb (1.45 kg) • Cisco IEM-3000-4SM=: 2.5 lb (1.1 Kg) • Cisco IEM-3000-8SM=: 3.0 lb (1.38 Kg) • Cisco IEM-3000-4PC=: 2.4 (1.08 Kg) • Cisco IEM-3000-4PC-4TC=: 2.5 (1.16 Kg) • Cisco PWR-IE50W-AC=: 1.4 lb (0.65 kg) • Cisco PWR-IE50W-AC-IEC=: 1.4 lb (0.65kg) • Cisco PWR-IE65W-PC-DC=: 2.6 (1.18 Kg) • Cisco PWR-IE65W-PC-AC=: 2.7 (1.24 Kg)

Operating environment	Operating temperature: -40C to +75C • -40C to +70C (Vented Enclosure – 40 LFM Air Flow) • -40C to +60C (Sealed Enclosure – 0 LFM Air Flow) • -24C to +75C (Fan or Blower equipped Enclosure – 200 LFM Air Flow) • -40C to +85C (IEC 60068-2-2 Environmental Type Testing – 16 hours) • Storage temperature: -40C to +85C • Operating relative humidity: 10 to 95% (non-condensing) • Operating altitude: Up to 13,000 ft (3963m) • Storage altitude: Up to 15,000 ft (4573m)
Mean Time Between Failures (MTBF)	• Cisco IE-3000-4TC, Cisco IE-3000-4TC-E: 363,942 • Cisco IE-3000-8TC, Cisco IE-3000-8TC-E: 329,451 • Cisco IEM-3000-8TM=: 926,999 • Cisco IEM-3000-8FM=: 264,689 • Cisco IEM-3000-4SM=: 8,887,990 • Cisco IEM-3000-8SM=: 7,732,890 • Cisco IEM-3000-4PC=: 1,494,990 • Cisco IEM-3000-4PC-4TC=: 1,291,440 • Cisco PWR-IE50W-AC=: 1,662,359 • Cisco PWR-IE50W-AC-IEC=: 1,662,359 • Cisco PWR-IE65W-PC-DC=: 2,468,430 • Cisco PWR-IE65W-PC-AC=: 2,488,401

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