Description Specification Cisco IEM-3000-4PC= • Expansion PoE module for IE-3000-4TC, IE-3000-8TC, IE-3000-4TC-E, and IE-3000-8TC-E switches, support 4 ports 10/100 PoE/PoE+. External power source is required (44-57 VDC for PoE/50-57 VDC for PoE+) • Minimum IOS release 15.0(2)EY2 • Expansion PoE module for IE-3000-4TC, IE-3000-8TC, IE-3000-4TC-E, and IE-3000-8TC-E switches, Cisco IEM-3000-4PC-4TC= support 4 ports 10/100 PoE/PoE+ and 4 ports non-PoE ports. External power source is required (44-57 VDC for PoE/50-57 VDC for PoE+) • Minimum IOS release 15.0(2)EY2 Cisco PWR-IE65W-PC-AC= AC-DC Power Module for PoE solution, Input AC 100-240V/1.4A, 50-60Hz or Input DC 125-250V/1A. Output 54VDC/1.2 A, DIN-Rail Mount Cisco PWR-IE65W-PC-DC= • DC-DC Power Module for PoE solution, Input DC 18-60 V/4.3A, Output DC 54V/1.2A, DIN-Rail Mount

Industrial Ethernet applications

The new Cisco IE 3000 Series is an ideal product for a variety of Industrial Ethernet applications:

Industrial automation: The Cisco IE 3000 is designed to support a wide array of Industrial Ethernet
protocols for automation. The Cisco IE 3000 features a Programmable Logic Controller (PLC) form-factor
design with extended environmental ratings, convection cooling, DIN-rail mounting, redundant 24VDC
power input, alarm relays, and surge/noise immunity. The Cisco IE 3000 software and configuration tools
allow for easy setup, optimized for Industrial Ethernet applications (for example, EtherNet/IP). Multicast
control, traffic prioritization, and security features are specified in default templates recommended for these
protocols.

 Table 3.
 Cisco IE 3000 Series switch hardware

Description	Specification
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 (4963m) Storage altitude: Up to 15,000 ft (4573m)

Description	Specification
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

 Table 4.
 Power specifications for Cisco IE 3000 Series switches

Description	Specification
Maximum power consumption	 Cisco IE-3000-4TC, Cisco IE-3000-4TC-E: 15.1W Cisco IE-3000-8TC, Cisco IE-3000-8TC-E: 15.7W Cisco IEM-3000-8TM=: 2.8W Cisco IEM-3000-8FM=: 10.1W Cisco IEM-3000-4SM=: 7.6W Cisco IEM-3000-8SM=: 12.2W Cisco IEM-3000-4PC=: 7.3W Cisco IEM-3000-4PC-4TC=: 7.9W
Input voltage and currents supported	 Cisco IE-3000-4TC, Cisco IE-3000-8TC, 18-60VDC Cisco IEM-3000-4PC=, IEM-3000-4PC-4TC=: 44-57V input Cisco PWR-IE50W-AC=: 100-240VAC/1.25A or 125-250VDC/1A Cisco PWR-IE50W-AC-IEC=: 100-240VAC/1.25A, 50-60Hz Cisco PWR-IE65W-PC-DC=: 18-60VDC/4.3A Cisco PWR-IE65W-PC-AC=: 100-240VAC/1.4A or 125-250V/1A
Power rating	 Cisco IE-3000-4TC, Cisco IE-3000-4TC-E: .05KVA Cisco IE-3000-8TC, Cisco IE-3000-8TC-E: .05KVA

 Table 5.
 Cisco IE 3000 Cisco DNA Essentials

Feature	Description
Cisco DNA Center	Discovery, topology, inventory, software image management
Visibility	Cisco DNA assurance, Device 360
Day-zero network bring-up automation	Cisco Network Plug-and-Play application

 Table 6.
 SFP transceivers support for Cisco IE 3000 Series switches

Part number	Specification	SFP type	Max distance	Cable type	Temp range	DOM support
GLC-FE-100FX-RGD=	100BASE-FX	FE	2km	MMF	IND	Yes
GLC-FE-100LX-RGD	100BASE-LX10	FE	10km	SMF	IND	Yes
GLC-FE-T-I=	100BASE-T	FE	100m	Copper	IND	NA
GLC-FE-100FX=	100BASE-FX	FE	2km	MMF	СОМ	No
GLC-FE-100LX=	100BASE-LX10	FE	10km	SMF	СОМ	No
GLC-FE-100EX=	100BASE-EX	FE	40km	SMF	СОМ	No
GLC-FE-100ZX=	100BASE-ZX	FE	80km	SMF	СОМ	No
GLC-FE-100BX-D=	100BASE-BX10	FE	10km	SMF	СОМ	No

Description	Specification
IE-3000-8TC-E	 Industrial Ethernet switch 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) 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 Layer 3 IP Services image installed
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
CAB-SM-LCSC-1M	1m-fiber single-mode LC-to-SC connectors
CAB-SM-LCSC-5M	5m-fiber single-mode LC-to-SC connectors
CF-IE3000=	• IE 3000 Compact Flash
PWR-IE3000-CLP=	IE 3000 Power Transformer Spare connector clip
PWR-IE3000-CNCT=	IE 3000 Power Spare connector
LPNL-IE3000=	IE 3000 Left Panel Spare
RPNL-IE3000=	IE 3000 Right Panel Spare
DINCLP-IE3000=	Din-rail clip 4 pack Spare
BMP-IE3000=	Din-rail clip bumper 4 pack Spare
STK-RACKMNT-2955=	Din-rail adapter for rack mounting
IE-SW-SPARE	Spare IOS software upgrade part number (L2 to L3 features)
IE3000-DNA-E-L	Cisco DNA Essentials license
IE3000-DNA-E-L-3Y	Cisco DNA Essentials 3-year term license option
IE3000-DNA-E-L-5Y	Cisco DNA Essentials 5-year term license option