

Cisco Catalyst IE3100 Rugged Series

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The Cisco Catalyst[™] IE3100 Rugged Series delivers mainstream adoption of Gigabit Ethernet connectivity in a compact, fixed form-factor switch that is purpose-built for a wide variety of extended enterprise and industrial applications in the most space constrained scenarios.

Product overview

Cisco Catalyst IE3100 Rugged Series switches with up to 20 Gigabit Ethernet interfaces deliver high-speed Gigabit Ethernet connectivity in a compact form factor and are designed for a wide range of industrial applications for which hardened products are required. This platform is built to withstand harsh environments in manufacturing, energy, transportation, mining, smart cities, and oil and gas. The IE3100 is ideal for space constrained deployments often found in distribution centers, warehouses, and outdoor spaces.

These switches run Cisco IOS® XE, an operating system with built-in security and trust, featuring Secure Boot, image signing, and the Cisco® Trust Anchor module. Cisco IOS XE also provides API-driven configuration with open APIs and data models. Provide secure Zero-Trust Network Access (ZTNA) to industrial assets at scale with Secure Equipment Access.

The Cisco Catalyst IE3100 Rugged Series can be managed with a powerful management tool, Cisco Catalyst Center, and can easily be set up with a completely redesigned user-friendly modern GUI tool called WebUI.

The IE3100 Rugged Series switches offer:

- Models offering 6, 10, 12, or 20 Gigabit Ethernet ports with up to 4 Gigabit SFP uplink ports or 2 Gigabit Combo uplink ports.
- Robust resiliency enabled by features such as Media Redundancy Protocol (MRP), Resilient Ethernet Protocol (REP), and dual-input DC power supplies.
- Simplified software management with universal images.
- Support for industrial automation protocols EtherNet/IP (CIP), Modbus and PROFINET.
- Support for Layer-2 Network Address Translation¹

¹ Supported on the IE-3105 variants only.









Figure 1. IE-3100 Rugged Series switches models

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Figure 2.IE-3105 Rugged Series switch models with enhanced feature set

Features and benefits

Table 1. Features and benefits

Feature	Benefits
Robust industrial design	 Built for harsh environments and temperature ranges (-40° to 75°C / -40° to 167°F) Fanless, convection-cooled with no moving parts for extended durability Hardened for vibration, shock and surge, and electrical noise immunity Complies with multi-industry specifications for automation, Intelligent Transport Systems (ITS), and substation environments Improves the uptime, performance, and safety of industrial systems and equipment IEEE 1588v2 Precision Timing Protocol (PTP) (both power profile for utility and default profile for manufacturing are supported) Alarm I/O for monitoring and signaling to external equipment
Full Gigabit Ethernet switch	 Up to 20 Gigabit Ethernet ports provide multiple resilient design options Provides secure access for new high-speed applications in the industrial space Allows IP-based Supervisory Control And Data Acquisition (SCADA) connectivity Delivers multiple rings, redundant ring topology for new network configurations Extends geographical scalability where connectivity over longer distances is required
Redundancy and Resiliency	Resilient Ethernet Protocol (REP) Media Redundancy Protocol (MRP)
User-friendly WebUI	 Allows for easy configuration and monitoring, even by nonspecialist personnel Eliminates the need for more complex terminal emulation programs Reduces the cost of deployment
Industrial automation protocols	• EtherNet/IP (CIP), Modbus, SCADA, GOOSE and PROFINET MRP (IEC 62439-2) allow integration with existing management platforms from Rockwell, Siemens, and others.
Zero Trust Network Access (ZTNA)	 Secure remote access to Operational Technology (OT) assets efficiency with Cisco Secure Equipment Access (SEA). Remote users connect to a cloud portal for authentication and authorization to configured devices and protocols for a designed date and time.

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Table 2. Product feature sets

Product series	Platforms supported	Cisco IOS Software image (feature sets) supported
IE3100	IE-3100-4T2S-E	Network Essentials
	IE-3100-8T2C-E	Network Essentials
	IE-3100-8T4S-E	Network Essentials
	IE-3100-18T2C-E	Network Essentials
	IE-3105-8T2C-E	Network Essentials
	IE-3105-18T2C-E	Network Essentials

Product specifications

Table 3 highlights the hardware configuration for Cisco Catalyst IE3100 Rugged Series.

Table 3. Hardware configurations

Product number	Total ports	10/100/1000 Mbps RJ- 45 ports (downlinks)	1G SFP fiber ports (uplinks)	1G combo ports (uplinks)	Software license
IE-3100-4T2S-E	6	4	2	0	Network Essentials
IE-3100-8T2C-E	10	8	0	2	Network Essentials
IE-3100-8T4S-E	12	8	4	0	Network Essentials
IE-3100-18T2C-E	20	18	0	2	Network Essentials
IE-3105-8T2C-E	10	8	0	2	Network Essentials
IE-3105-18T2C-E	20	18	0	2	Network Essentials

Tables 4 and 5 highlight the hardware specifications for the Cisco Catalyst IE3100 Rugged Series.

Table 4. Hardware specifications

Hardware specification	IE-3100- 4T2S-E	IE-3100- 8T2C-E	IE-3100- 8T4S-E	IE-3100- 18T2C-E	IE-3105- 8T2C-E	IE-3105- 18T2C-E
Removable storage	SD card ¹					
Alarms	2 dry-contact alarm inputs					

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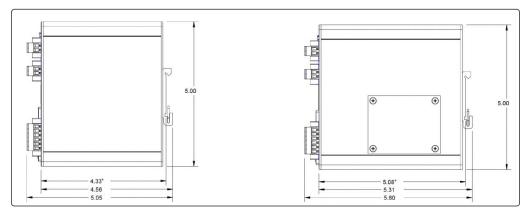
Hardware specification	IE-3100-	IE-3100-	IE-3100-	IE-3100-	IE-3105-	IE-3105-
	4T2S-E	8T2C-E	8T4S-E	18T2C-E	8T2C-E	18T2C-E
Console ports	1 RS-232 (via					
	RJ-45), 1 Micro					
	USB	USB	USB	USB	USB	USB
Power inputs	DC power inputs	DC power inputs	DC power inputs	DC power inputs	DC power inputs	DC power inputs

¹ The SD card is optional and not shipped by default with the switch.

 Table 5.
 Physical configurations

Product number	Dimensions (H x W x D)	Weight	Mounting
IE-3100-4T2S-E	5.00 x 2.55 x 4.33 in. (12.70 x 6.48 x 11.00 cm)	1.6 lb (0.73 kg) ¹	DIN Rail
IE-3100-8T2C-E	5.00 x 3.00 x 4.33 in. (12.70 x 7.62 x 11.00 cm)	1.9 lb (0.86 kg) ¹	DIN Rail
IE-3100-8T4S-E	5.00 x 3.00 x 4.33 in. (12.70 x 7.62 x 11.00 cm)	1.9 lb (0.86 kg) ¹	DIN Rail
IE-3100-18T2C-E	5.00 x 4.30 x 5.08 in (12.70 x 10.92 x 12.90 cm)	2.8 lb (1.27 kg) ¹	DIN Rail
IE-3105-8T2C-E	5.00 x 3.00 x 5.08 in. (12.70 x 7.62 x 12.90 cm)	2.3 lb (1.04 kg) ¹	DIN Rail
IE-3105-18T2C-E	5.00 x 4.30 x 5.08 in. (12.70 x 10.92 x 12.90 cm)	2.8 lb (1.27 kg) ¹	DIN Rail

¹ Chassis only



^{*}Measurement reference is from faceplate to DIN Rail face attachment.

Figure 3. Cisco Catalyst IE3100 side view dimensions

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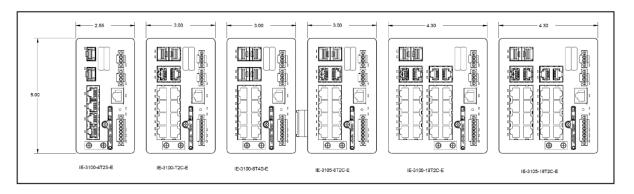


Figure 4.Cisco Catalyst IE3100 front view dimensions

Table 6 highlights power specifications for the Cisco Catalyst IE3100 Rugged Series.

Table 6. Power specifications

Product number	Input Voltage Range	Max Current during normal operation ¹	Inrush Current ¹	Power consumption ^{2,3,4}
IE-3100-4T2S-E	12V to 48V nominal 9.6V to 60V absolute	1.6 A with 12V input 0.8 A with 24V input 0.4 A with 48V input	10 A for 7 ms with 12V input 6 A for 6 ms with 24V input 6 A for 6 ms with 48V input	14W
IE-3100-8T2C-E	12V to 48V nominal 9.6V to 60V absolute	2.0 A with 12V input 1.0 A with 24V input 0.5 A with 48V input	10 A for 7 ms with 12V input 6 A for 6 ms with 24V input 6 A for 6 ms with 48V input	17.7W
IE-3100-8T4S-E	12V to 48V nominal 9.6V to 60V absolute	2.0 A with 12V input 1.0 A with 24V input 0.5 A with 48V input	10 A for 7 ms with 12V input 6 A for 6 ms with 24V input 6 A for 6 ms with 48V input	17.8W
IE-3100-18T2C-E	12V to 48V nominal 9.6V to 60V absolute	4.2 A with 12V input 2.6 A with 24V input 1.3 A with 48V input	10 A for 7 ms with 12V input 6 A for 6 ms with 24V input 6 A for 6 ms with 48V input	36.7W
IE-3105-8T2C-E	12V to 48V nominal 9.6V to 60V absolute	3.2 A with 12V input 1.6 A with 24V input 0.8 A with 48V input	10 A for 7 ms with 12V input 6 A for 6 ms with 24V input 6 A for 6 ms with 48V input	28W
IE-3105-18T2C-E	12V to 48V nominal 9.6V to 60V absolute	4.2 A with 12V input 2.6 A with 24V input 1.3 A with 48V input	10 A for 7 ms with 12V input 6 A for 6 ms with 24V input 6 A for 6 ms with 48V input	36.7W

¹ Max Current and Inrush current should be used for sizing power supplies and electrical wiring.

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² Power Consumption should be used for thermal load and battery capacity.

³ Power consumption varies with the local ambient temperature, the input voltage, and the number/type of active interfaces. Please see the IE-310x Power Estimator for more detailed power consumption.

 $^{^{\}rm 4}$ For BTU/hr, please convert the Power Consumption watts to BTU/hr

Table 7 highlights the performance and scalability features of the Cisco Catalyst IE3100 Rugged Series.

 Table 7.
 Performance and scalability features

Feature	Performance (IE-3100/IE-3105 Series)
Forwarding rate	Line rate for all ports and all packet sizes
Number of queues	8 egress
Unicast MAC addresses	8000
Internet Group Management Protocol (IGMP) multicast groups	512
VLANs	256
IPv4 indirect routes	2000
Spanning Tree Protocol (STP) instances	128
DRAM	4 GB
SD card capacity ¹	1 GB, 4 GB

¹ SD card is optional and is not shipped by default with the switch.

Table 8 highlights the power supply options for the Cisco Catalyst IE3100 Rugged Series.

 Table 8.
 Power supply options

Product number	Wattage	Rated nominal input operating range	More details
PWR-IE50W-AC=1	50W	AC 100-240V/1.25A 50-60Hz or DC 125-250V/1.25A	
PWR-IE50W-AC-L=1	50W	AC 100-240V/1.2A 50-60Hz	
PWR-IE50W-AC-IEC=	50W	AC 90-264V	
PWR-IE65W-PC-AC=	65W	AC 100-240V/1.4A 50-60Hz or DC 125-250V/1.0A	For more details on these DIN
PWR-IE65W-PC-DC=	65W	DC 24-48VDC/4.5A	rail power supplies, see the power supplies data sheet.
PWR-IE170W-PC-AC=	170W	AC 100-240V/2.3A 50-60Hz or DC 125-250V/2.1A	
PWR-IE170W-PC-DC=	170W	DC 12-54VDC/23A	
PWR-IE240W-PCAC-L=	240W	AC 100-240V/2.5A 50-60Hz	
PWR-IE480W-PCAC-L=	480W	AC 100-240V/5.0A 50-60Hz	

¹ The power supplies are not certified for smart grid and hazardous locations. These power supplies are IP20 rated.

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Tables 9 and 10 highlight the software features supported by the Cisco Catalyst IE3100 Rugged Series.

Table 9. Key supported software features (Network Essentials license)

Network Essentials license (perpetual)	Features Page 1997
Layer 2 switching	802.1Q, 802.1w, 802.1ab, 802.1s, 802.3ad, Per-VLAN Rapid Spanning Tree (PVRST+), Per-VLAN Spanning Tree (PVST+), Rapid PVST (RPVST), Switch Port Analyzer (SPAN), Remote-SPAN (RSPAN), Flow-Based SPAN (FSPAN), STP, Storm Control, VLAN Trunk Protocol (VTP) v2/v3, 802.1Q Tunneling, Q-in-Q, EtherChannel
Multicast	IGMP v1/v2/v3, IGMP snooping, Multicast Listener Discovery (MLD) snooping
Management	WebUI, MIB, Simple Network Management Protocol (SNMP), syslog, Dynamic Host Configuration Protocol (DHCP) server, NETCONF, RESTCONF, Embedded Event Manager (EEM), Cisco Network Plug and Play (PnP), Express Setup
Security	DHCPv6 Guard, IP Source Guard, IPv6 Destination Guard, IPv6 Neighbor Discovery Multicast Suppress, IPv6 Router Advertisement (RA) Guard, IPv6 Snooping, IPv6 Source/Prefix Guard, IPv6 Neighbor Discovery Duplicate Address Detection, PACL, VACL, Network Edge Authentication Topology (NEAT), HTTPS, RADIUS, TACACS+, X.509v3, Secure Shell (SSH), DHCP Snooping, 802.1X, Client Information Signaling Protocol (CISP), Dynamic ARP Inspection (DAI), authentication, authorization, and accounting (AAA), Secure Copy Protocol (SCP), Security Exchange Protocol (SXP)
Quality of Service (QoS)	802.1p, priority queuing, Modular QoS command-line interface (MQC), class-based shaping and marking, Ingress policing, egress queuing and shaping, Auto-QoS, Differentiated Services Code Point (DSCP) mapping and filtering, low-latency queuing
Layer 3 routing	Inter-VLAN routing, static routing
Industrial Ethernet	Locate Switch, Swap Drive, Generic Object-Oriented Substation Events (GOOSE) messaging, SCADA Protocol Classification, PTP (Default Profile, Power Profile 2011, Power Profile 2017 ²), Network Time Protocol (NTP) to PTP, Sampled Values
Redundancy	Resilient Ethernet Protocol (REP) ring, Media Redundancy Protocol (MRP)
Automation	YANG, NETCONF, RESTCONF
Industrial management	Layer 2 switching with 1:1 switching Network Address Translation (L2NAT) ¹

¹ Supported on the IE-3105 variants only.

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² Power Supplies Datasheet Link: https://www.cisco.com/c/en/us/products/collateral/switches/industrial-ethernet-switches/datasheet-c78-742180.html

 $^{^{\}rm 2}$ Support planned with future software updates.

Table 10 highlights the details of Cisco Catalyst Center Essentials for the IE3100 Rugged Series.

Table 10. Cisco Catalyst Center Essentials license

Feature	Description	Cisco Catalyst Center Essentials ¹
Cisco Catalyst Center	Discovery, topology, inventory, software image management	Yes
Visibility	Overall Health dashboard	Yes
Day-zero network bring-up automation	Cisco Network Plug-and-Play application	Yes

¹ Cisco Catalyst Center licenses for Industrial Ethernet switches are add-on/optional and not mandatory. They do not include Network Tier features.

Table 11 highlights the compliance specifications for the Cisco Catalyst IE3100 Rugged Series.

Table 11. Compliance specifications

Descriptions	Specifications			
Emissions, immunity and	FCC 47 CFR Part 15 Subpart B Class A			
regulatory compliance	EN 55032A Class A			
	EN55035			
	VCCI Class A			
	AS/NZS CISPR 32 Class A, AS/NZS CISPR35			
	ICES 003 Class A			
	BS -Taiwan CNS15936			
	KCC -Korea KS C9832, KS C9835			
	CE EU			
	RCM -(Australia/ New Zealand)			
	Brazil Anatel certification ¹			
	India TEC Certification ¹			
	IEC/EN/EN61000-4-2 (Electro Static Discharge), 15kV air/8kV contact			
	IEC/EN 61000-4-3 (Radiated Immunity, 10 V/m with unshielded cables)			
	IEC/EN 61000-4-4 (Fast Transients - 4kV power line, 4kV data line)			
	IEC/EN 61000-4-5 (Surge 2KV _{L-G} and 1KV _{L-L)}			
	IEC/EN 61000-4-6 (Conducted Immunity, 10 Vrms)			
	IEC/EN 61000-4-8 (Power Frequency Magnetic Field Immunity) ¹			
	IEC/EN 61000-4-9 (Pulse Magnetic Field Immunity) ¹			
	IEC/EN 61000-4-10 (Oscillatory Magnetic Field Immunity) ¹			
	IEC/EN 61000-4-29 (Voltage Dips Immunity) ¹			
	IEC/EN 61000-6-1 (Immunity for Light Industrial Environments)			
	IEC/EN 61000-6-2 (Immunity for Industrial Environments)			

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Descriptions	Specifications
	IEC/EN 61000-6-4 (Emission for industrial Environments)
	EN 61326
	RoHS compliance (EU and China)
Industry standards	EN 61131-2 (EMC/EMI, environmental, mechanical)
	Marine DnV ¹
	Substation / Utility (IEEE 1613, IEC 61850-3) ¹
	EN50121-3-2 ¹
	EN50121-4 ¹
	NEMA TS-2 (EMC, environmental, mechanical) ¹
	ABB Industrial IT certification
	IP30
	ODVA Industrial Ethernet/IP support
	PROFINETv2.3 support
Safety standards and	Information Technology Equipment:
certifications	• UL/CSA 60950-1
	• UL/CSA 62368-1
	CB report and certificate to IEC 62368-1 with all country deviations
	Industrial floor (control equipment):
	• UL/CSA 61010-2-201
	Hazardous Locations:
	• UL121201(Class I, Div 2, groups A-D)
	 CSA 22.2 No 213 (Class I, Div 2, groups A-D) UL/CSA 60079-0, -15 (Class I, Zone 2, Gc/IIC)
	• IEC 60079-0, -7, -15 IECEx test report (Class I, Zone 2, Gc/IIC)
	• EN 60079-0, -7, -15 ATEX certificate (Class I, Zone 2, Gc/IIC)
	 An external IP54 enclosure is required for hazardous location installations (see hardware install guide / hazardous locations document for more information)
Operating environment	Operating temperature:
	-40° to 75°C (-40° to 167°F) (blower-equipped cabinet)
	-40° to 60°C (-40° to 140°F) (sealed cabinet)
	-40° to 70°C (-40° to 158°F) (vented cabinet)
	+85°C (type tested for 96 hours)
	EN 60068-2-1
	EN 60068-2-2
	EN 61131
	Altitude:
	Up to 15,000 feet (4,572 m) with no temperature derating
	Up to 40,000 feet (12,192 m) with temperature derating down to 25°C (77°F)

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Descriptions	Specifications
Storage environment	Temperature: -40° to 85°C (-40° to 185°F) Altitude: 40,000 feet (12,192 m) IEC 60068-2-14
Humidity	IEC 60068 -2-3 ¹ IEC 60068-2-30 ¹ Relative humidity: 5% to 95% noncondensing ¹
Shock and vibration	IEC 60068-2-27 (Operational Shock: 30G 11ms, half sine) IEC 60068-2-27 (Non-Operational Shock 55-70G, trapezoidal) IEC 60068-2-6, IEC 60068-2-64, EN 61373 (Operational Vibration) IEC 60068-2-6, IEC 60068-2-64, EN 61373 (Non-operational Vibration)
Corrosion	IEC 60068-2-52 (salt fog mist, method 3) IEC60068-2-60 (flowing mixed gases) ISO-12944-6 ¹
Warranty	Five-year limited hardware warranty on all IE3100 product IDs and all Industrial Ethernet (IE) power supplies. See more information in the Warranty section.

¹ Certification in progress

Table 12 highlights the Mean Time Between Failures (MTBF) for the Cisco Catalyst IE3100 Rugged Series.

Table 12. MTBF information

Product ID	Rated MTBF (hours) based on Telcordia Issue 4
IE-3100-4T2S-E	931,290
IE-3100-8T2C-E	854,560
IE-3100-8T4S-E	575,966
IE-3100-18T2C-E	642,050
IE-3105-8T2C-E	774,680
IE-3105-18T2C-E	642,050

Table 13 highlights information about management and standards for the Cisco Catalyst IE3100 Rugged Series.

Table 13. Management and standards*

Description	Specifications	
IEEE standards	IEEE 802.1D MAC Bridges, STP IEEE 802.1p Layer2 COS prioritization IEEE 802.1q VLAN IEEE 802.1s Multiple Spanning-Trees IEEE 802.1w Rapid Spanning-Tree IEEE 802.1x Port Access Authentication IEEE 802.1AB Link Layer Discovery Protocol LLDP IEEE 802.3ad Link Aggregation Control Protocol (LACP)	IEEE 802.3ah 100BASE-X SMF/MMF only IEEE 802.3u 100BASE-TX specification IEEE 802.3ab 1000BASE-T specification IEEE 802.3z 1000BASE-X specification IEEE 1588v2 Precision Time Protocol (PTP)
RFC compliance	 RFC 768: User Datagram Protocol (UDP) RFC 783: Trivial File Transfer Protocol (TFTP) RFC 791: IPv4 protocol RFC 792: Internet Control Message Protocol (ICMP) RFC 793: TCP RFC 826: ARP RFC 854: Telnet RFC 951: BOOTP RFC 959: FTP RFC 1157: SNMPv1 RFC 1901,1902-1907 SNMPv2 RFC 2273-2275: SNMPv3 RFC 2571: SNMP Management RFC 1166: IP Addresses RFC 1256: ICMP Router Discovery 	 RFC 1305: NTP RFC 1492: TACACS+ RFC 1493: Bridge MIB Objects RFC 1534: DHCP and BOOTP interoperation RFC 1542: Bootstrap Protocol RFC 1643: Ethernet Interface MIB RFC 1757: Remote Monitoring (RMON) RFC 2068: HTTP RFC 2131, 2132: DHCP RFC 2236: IGMP v2 RFC 3376: IGMP v3 RFC 2474: DiffServ Precedence RFC 3046: DHCP Relay Agent Information Option RFC 3580: 802.1X RADIUS RFC 4250-4252 SSH Protocol
SNMP MIB objects	BRIDGE-MIB CALISTA-DPA-MIB CISCO-ACCESS-ENVMON-MIB CISCO-ADMISSION-POLICY-MIB CISCO-AUTH-FRAMEWORK-MIB CISCO-BRIDGE-EXT-MIB CISCO-BRIDGE-EXT-MIB CISCO-CABLE-DIAG-MIB CISCO-CABLE-DIAG-MIB CISCO-CAR-MIB CISCO-CAR-MIB CISCO-COP-MIB CISCO-CIRCUIT-INTERFACE-MIB CISCO-CONFIG-COPY-MIB CISCO-CONFIG-MAN-MIB CISCO-DATA-COLLECTION-MIB CISCO-DHCP-SNOOPING-MIB CISCO-EMBEDDED-EVENT-MGR-MIB	CISCO-SNMP-TARGET-EXT-MIB CISCO-STP-EXTENSIONS-MIB CISCO-SYSLOG-MIB CISCO-TCP-MIB CISCO-UDLDP-MIB CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB CISCO-VLAN-MEMBERSHIP-MIB CISCO-VTP-MIB ENTITY-MIB ETHERLIKE-MIB HC-RMON-MIB IEEE8021-PAE-MIB IEEE8023-LAG-MIB IF-MIB IP-FORWARD-MIB LLDP-EXT-MED-MIB

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Description	Specifications	
	CISCO-ENTITY-VENDORTYPE-OID-MIB	NETRANGER
	CISCO-ENVMON-MIB	NOTIFICATION-LOG-MIB
	CISCO-ERR-DISABLE-MIB	OLD-CISCO-CHASSIS-MIB
	CISCO-FLASH-MIB	OLD-CISCO-CPU-MIB
	CISCO-FTP-CLIENT-MIB	OLD-CISCO-FLASH-MIB
	CISCO-IGMP-FILTER-MIB	OLD-CISCO-INTERFACES-MIB
	CISCO-IMAGE-MIB	OLD-CISCO-IP-MIB
	CISCO-IP-STAT-MIB	OLD-CISCO-MEMORY-MIB
	CISCO-LAG-MIB	OLD-CISCO-SYS-MIB<
	CISCO-LICENSE-MGMT-MIB	OLD-CISCO-SYSTEM-MIB
	CISCO-MAC-AUTH-BYPASS-MIB	OLD-CISCO-TCP-MIB
	CISCO-MAC-NOTIFICATION-MIB	OLD-CISCO-TS-MIB
	CISCO-MEMORY-POOL-MIB	• RMON-MIB
	CISCO-PAE-MIB	• RMON2-MIB
	CISCO-PAGP-MIB	• SMON-MIB
	CISCO-PING-MIB	SNMP-COMMUNITY-MIB
	CISCO-PORT-QOS-MIB	SNMP-FRAMEWORK-MIB
	CISCO-PORT-SECURITY-MIB	SNMP-MPD-MIB
	CISCO-PORT-STORM-CONTROL-MIB	SNMP-NOTIFICATION-MIB
	CISCO-PRIVATE-VLAN-MIB	SNMP-PROXY-MIB
	CISCO-PROCESS-MIB	SNMP-TARGET-MIB
	CISCO-PRODUCTS-MIB	SNMP-USM-MIB
	CISCO-RESILIENT-ETHERNET-PROTOCOL-MIB	SNMP-VIEW-BASED-ACM-MIB
	CISCO-RTTMON-ICMP-MIB	SNMPv2-MIB
	CISCO-RTTMON-IP-EXT-MIB	• TCP-MIB
	CISCO-RTTMON-MIB	• UDP-MIB
	CISCO-RTTMON-RTP-MIB	

^{*}The list of standards is not final and may change.

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Table 14 highlights information about supported SFP modules for the Cisco Catalyst IE3100 Rugged Series switches.

Table 14. SFP support

Part number	Specification	SFP type	Max distance	Cable type	Temperature range	Digital optical monitoring (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-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
GLC-FE-100BX-U=	100BASE-BX10	FE	10km	SMF	СОМ	Yes
GLC-SX-MM-RGD=	1000BASE-SX	GE	550m	MMF	IND	Yes
GLC-LX-SM-RGD=	1000BASE-LX/LH	GE	550m/10km	MMF/SMF	IND	Yes
GLC-ZX-SM-RGD=	1000BASE-ZX	GE	70km	SMF	IND	Yes
GLC-BX40-U-I=	1000BASE-BX40	GE	40km	SMF	IND	Yes
GLC-BX40-D-I=	1000BASE-BX40	GE	40km	SMF	IND	Yes
GLC-BX40-DA-I=	1000BASE-BX40	GE	40km	SMF	IND	Yes
GLC-BX80-U-I=	1000BASE-BX80	GE	80km	SMF	IND	Yes
GLC-BX80-D-I=	1000BASE-BX80	GE	80km	SMF	IND	Yes
GLC-SX-MMD=	1000BASE-SX	GE	550m	MMF	EXT	Yes
GLC-LH-SMD=	1000BASE-LX/LH	GE	550m/10km	MMF/SMF	EXT	Yes
GLC-EX-SMD=	1000BASE-EX	GE	40km	SMF	EXT	Yes
GLC-ZX-SMD=	1000BASE-ZX	GE	70km	SMF	EXT	Yes
GLC-BX-D=	1000BASE-BX10	GE	10km	SMF	СОМ	Yes
GLC-BX-U=	1000BASE-BX10	GE	10km	SMF	COM	Yes

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Part number	Specification	SFP type	Max distance	Cable type	Temperature range	Digital optical monitoring (DOM) support
CWDM-SFP-xxxx= (8 freq)	CWDM 1000BASE-X	GE		SMF	СОМ	Yes
DWDM-SFP-xxxx= (40 freq)	DWDM 1000BASE-X	GE		SMF	СОМ	Yes
SFP-GE-S=	1000BASE-SX	GE	550m	MMF	EXT	Yes
SFP-GE-L=	1000BASE-LX/LH	GE	550m/10km	MMF/SMF	EXT	Yes
SFP-GE-Z=	1000BASE-ZX	GE	70km	SMF	EXT	Yes
GLC-SX-MM=	1000BASE-SX	GE	550m	MMF	COM	No
GLC-LH-SM=	1000BASE-LX/LH	GE	550m/10km	MMF/SMF	COM	No
GLC-ZX-SM=	1000BASE-ZX	GE	70km	SMF	COM	Yes
GLC-T=	1000BASE-T	GE	100m	Copper	EXT	NA
GLC-TE=	1000BASE-T	GE	100m	Copper	EXT	NA
GLC-T-RGD=	1000BASE-T	GE	100m	Copper	IND	NA

For DOM support and for first software release supporting SFP, refer to https://www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html

MMF = Multimode fiber

SMF = Single-mode fiber

Ordering information

Table 15 lists the ordering information for the Cisco Catalyst IE3100 Rugged Series.

Table 15. Ordering information

Product ID	Description
IE-3100-4T2S-E	Catalyst IE3100 w/4 Ports GE Copper and 2 GE SFP uplinks, NE
IE-3100-8T2C-E	Catalyst IE3100 w/8 Ports GE Copper and 2 GE Combo uplinks, NE
IE-3100-8T4S-E	Catalyst IE3100 w/8 Ports GE Copper and 4 GE SFP uplinks, NE
IE-3100-18T2C-E	Catalyst IE3100 w/18 Ports GE Copper and 2 GE Combo uplinks, NE
IE-3105-8T2C-E	Catalyst IE3105 w/8 Ports GE Copper and 2 GE Combo uplinks, Advanced features, NE
IE-3105-18T2C-E	Catalyst IE3105 w/18 Ports GE Copper and 2 GE Combo uplinks, Advanced features, NE
SD-IE-1GB=	1GB SD memory card for IE

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Product ID	Description
SD-IE-4GB=	4GB SD memory card for IE
PWR-IE50W-AC=	50W AC to DC or High DC to DC Power Supply
PWR-IE50W-AC-L=	50W AC to DC Power Supply
PWR-IE50W-AC-IEC=	50W AC to DC Power Supply with IEC connector (IEC 60320 C14)
PWR-IE65W-PC-AC=	65W AC to DC or High DC to DC Power Supply
PWR-IE65W-PC-DC=	65W Low DC to DC Power Supply
PWR-IE170W-PC- AC=	170W AC to DC or High DC to DC Power Supply
PWR-IE170W-PC- DC=	170W AC to DC or High DC to DC Power Supply
PWR-IE240W-PCAC-L=	240W AC to DC Power Supply
PWR-IE480W-PCAC-L=	480W AC to DC Power Supply
STK-RACK-DINRAIL=	19" DIN Rail mount kit
IE3100-DNA-E-L	Cisco Catalyst Center Essentials license for IE3100 Series (up to 12 ports)
IE3100-DNA-E-L-1Y	IE3100 Cisco Catalyst Center Essentials (up to12 Ports), 1 Year Term license
IE3100-DNA-E-L-3Y	IE3100 Cisco Catalyst Center Essentials (up to 12 Ports), 3 Year Term license
IE3100-DNA-E-L-5Y	IE3100 Cisco Catalyst Center Essentials (up to 12 Ports), 5 Year Term license
IE3100-DNA-E-L-7Y	IE3100 Cisco Catalyst Center Essentials (up to 12 Ports), 7 Year Term license
IE3100-DNA-E-L-10Y	IE3100 Cisco Catalyst Center Essentials (up to 12 Ports), 10 Year Term license
IE3100-DNA-E-M	Cisco Catalyst Center Essentials license for IE3100 Series (up to 24 ports)
IE3100-DNA-E-M-1Y	IE3100 Cisco Catalyst Center Essentials (up to 24 Ports), 1 Year Term license
IE3100-DNA-E-M-3Y	IE3100 Cisco Catalyst Center Essentials (up to 24 Ports), 3 Year Term license
IE3100-DNA-E-M-5Y	IE3100 Cisco Catalyst Center Essentials (up to 24 Ports), 5 Year Term license
IE3100-DNA-E-M-7Y	IE3100 Cisco Catalyst Center Essentials (up to 24 Ports), 7 Year Term license
IE3100-DNA-E-M-10Y	IE3100 Cisco Catalyst Center Essentials (up to 24 Ports), 10 Year Term license

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Warranty

Five-year limited hardware warranty on all IE3100 product IDs and power supplies (see Table 8 above). See the following link for more details on the warranty: https://www.cisco.com/c/en/us/products/warranties/warranty-doc-c99-740591.html.

Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's <u>Corporate Social Responsibility</u> (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Table 16. Links to environmental sustainability topics

Sustainability topic	Reference	
Information on product material content laws and regulations	<u>Materials</u>	
Information on electronic waste laws and regulations, including products, batteries, and packaging	Waste Electrical and Electronic Equipment (WEEE) compliance	

Reference links to product-specific environmental sustainability information that is mentioned in relevant sections of this data sheet are provided in the following table:

Table 17. Product-specific environmental sustainability information

Sustainability topic	Reference
Power	
Power specifications and consumption	Table 6. Physical configurations
Environmental characteristics	
Operating temperature, industry standards, EMC emissions	Table 11. Compliance specifications
Material	
Unit weight	Table 5. Physical configurations

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Document history

New or revised topic	Described in	Date
SEA Support	Table 1	January 2024
DNA name change to Catalyst Center, Addition of UL60101	Entire Datasheet, Compliance Specification	October 19, 2023
IE-3100-8T4S-E	Various Sections and Tables	July 13, 2023

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