Data sheet Cisco public



# Cisco Catalyst IE3100 Rugged Series

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The Cisco Catalyst<sup>™</sup> 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 supports PoE with a power budget of up to 240W for PoE/PoE+ and is ideal for connecting PoE-powered end devices such as IP cameras, phones, wireless access points, sensors, and more.

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.
- Support for up to 8 PoE/PoE+ ports with a maximum power budget of 240W.
- 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 Translation<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Supported on the IE-3105 variants only.















Figure 1. IE-3100 Rugged Series switches models





**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  |
|                                 | <ul> <li>Complies with multi-industry specifications for automation, Intelligent Transport Systems (ITS), and<br/>substation environments</li> </ul>  |
|                                 | • Improves the uptime, performance, and safety of industrial systems and equipment  |
|                                 | <ul> <li>IEEE 1588v2 Precision Timing Protocol (PTP) (both power profile for utility and default profile for<br/>manufacturing are supported)</li> </ul>  |
|                                 | Alarm I/O for monitoring and signaling to external equipment  |
| Full Gigabit Ethernet           | Up to 20 Gigabit Ethernet ports provide multiple resilient design options   |
| switch                          | 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   |
| Power over Ethernet (PoE)       | Supports up to 8x PoE/PoE+ with 802.3af / 802.3at [Power Budget up to 240W]   |
| Tower over Emeriet (1 oL)       | Controls costs by limiting wiring, distribution panels, and circuit breakers  |
|                                 | • Reduces equipment needs, thus requiring less space and reducing heat dissipation  |
|                                 | • Enables ready-to-use PoE devices, such as IP phones, vision cameras and wireless access point   |
|                                 | • PoE Boost Support: PoE/PoE+ is supported on DC power input as low as 12VDC.   |
|                                 | <ul> <li>Perpetual PoE Support: With Perpetual PoE, the PoE power is maintained during a switch reload. This is important for IoT endpoints such as PoE-powered lights, so the device does not completely power off.</li> </ul> |
|                                 | • Fast PoE Support: When power is restored to a switch, PoE starts delivering power to endpoints without waiting for the operating system to fully load, thereby speeding up the time for the endpoint to start up.             |
| Redundancy and                  | Resilient Ethernet Protocol (REP)   |
| Resiliency                      | 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  |

| Feature                             | Benefits   |
|-------------------------------------|--|
| Zero Trust Network<br>Access (ZTNA) | • Secure remote access to Operational Technology (OT) assets efficiency with Cisco Secure Equipment Access (SEA)   |
|                                     | <ul> <li>Remote users connect to a cloud portal for authentication and authorization to configured devices and<br/>protocols for a designed date and time</li> </ul> |

 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-3100-18T2C-CC-E  | Network Essentials                                |
|                | IE-3100-4P2S-E      | Network Essentials                                |
|                | IE-3100-8P2C-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<br>ports | 10/100/1000<br>Mbps RJ45<br>Copper ports | 1GE SFP<br>ports | 1GE combo<br>ports | Software license      | PoE/PoE(+)<br>budget | Conformal coating |
|--------------------|----------------|--|------------------|--------------------|-----------------------|----------------------|-------------------|
| IE-3100-4T2S-E     | 6              | 4  | 2                | 0                  | Network<br>Essentials |                      |                   |
| IE-3100-8T2C-E     | 10             | 8  | 0                | 2                  | Network<br>Essentials |                      |                   |
| IE-3100-8T4S-E     | 12             | 8  | 4                | 0                  | Network<br>Essentials |                      |                   |
| IE-3100-18T2C-E    | 20             | 18                                       | 0                | 2                  | Network<br>Essentials |                      |                   |
| IE-3100-18T2C-CC-E | 20             | 18                                       | 0                | 2                  | Network<br>Essentials |                      | Yes               |
| IE-3100-4P2S-E     | 6              | 4  | 2                | 0                  | Network<br>Essentials | 120W                 |                   |

| Product number  | Total<br>ports | 10/100/1000<br>Mbps RJ45<br>Copper ports | 1GE SFP<br>ports | 1GE combo<br>ports | Software license      | PoE/PoE(+)<br>budget | Conformal coating |
|-----------------|----------------|--|------------------|--------------------|-----------------------|----------------------|-------------------|
| IE-3100-8P2C-E  | 10             | 8  | 0                | 2                  | Network<br>Essentials | 240W                 |                   |
| IE-3105-8T2C-E  | 10             | 8  | 0                | 2                  | Network<br>Essentials |                      |                   |
| IE-3105-18T2C-E | 20             | 18                                       | 0                | 2                  | Network<br>Essentials |                      |                   |

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

 Table 4.
 Hardware specifications

| Hardware specification | IE-3100-<br>4T2S-E                          | IE-3100-<br>8T2C-E                          | IE-3100-<br>8T4S-E                          | IE-3100-<br>18T2C-E                         | IE-3100-<br>18T2C-<br>CC-E                     | IE-3100-<br>4P2S-E                             | IE-3100-<br>8P2C-E                             | IE-3105-<br>8T2C-E                          | IE-3105-<br>18T2C-E                            |
|------------------------|---|---|---|---|--|--|--|---|--|
| PoE power<br>budget    | Not<br>applicable                           | Not<br>applicable                           | Not<br>applicable                           | Not<br>applicable                           | Not<br>applicable                              | 120W   | 240W   | Not<br>applicable                           | Not<br>applicabl<br>e                          |
| Removeable<br>Storage  | SD card <sup>1</sup>                           | SD card <sup>1</sup>                           | SD card <sup>1</sup>                           | SD card <sup>1</sup>                        | SD card <sup>1</sup>                           |
| Alarms                 | 2 dry-<br>contact<br>alarm<br>inputs           | 2 dry-<br>contact<br>alarm<br>inputs           | 2 dry-<br>contact<br>alarm<br>inputs           | 2 dry-<br>contact<br>alarm<br>inputs        | 2 dry-<br>contact<br>alarm<br>inputs           |
| Console<br>Ports       | 1 RS-232<br>(via RJ-<br>45), 1<br>Micro USB | 1 RS-232<br>(via RJ-<br>45), 1<br>Micro<br>USB | 1 RS-<br>232 (via<br>RJ-45),<br>1 Micro<br>USB | 1 RS-232<br>(via RJ-<br>45), 1<br>Micro<br>USB | 1 RS-232<br>(via RJ-<br>45), 1<br>Micro USB | 1 RS-232<br>(via RJ-<br>45), 1<br>Micro<br>USB |
| Power Inputs           | Dual DC<br>Inputs                              | Dual DC<br>Inputs                              | Dual DC<br>Inputs                              | Dual DC<br>Inputs                           | Dual DC<br>Inputs                              |

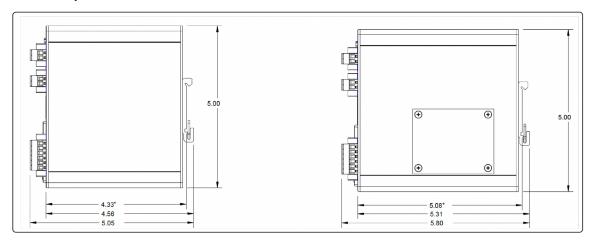
<sup>&</sup>lt;sup>1</sup> The SD card is optional and not shipped by default with the switch.

 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) <sup>1</sup> | 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) <sup>1</sup> | 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) <sup>1</sup> | 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) <sup>1</sup> | DIN Rail |
| IE-3100-18T2C-CC-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) <sup>1</sup> | DIN Rail |

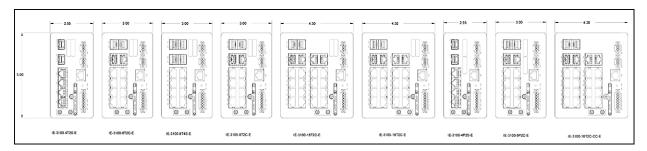
| Product number  | Dimensions (H x W x D)                            | Weight                        | Mounting |
|-----------------|---|-------------------------------|----------|
| IE-3100-4P2S-E  | 5.00 x 2.55 x 5.08 in. (12.70 x 6.48 x 12.90 cm)  | 2.0 lb (0.91 kg) <sup>1</sup> | DIN Rail |
| IE-3100-8P2C-E  | 5.00 x 3.00 x 5.08 in. (12.70 x 7.62 x 12.90 cm)  | 2.3 lb (1.04 kg) <sup>1</sup> | 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) <sup>1</sup> | 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) <sup>1</sup> | DIN Rail |

<sup>&</sup>lt;sup>1</sup> Chassis only



\*Measurement reference is from faceplate to DIN Rail face attachment.

**Figure 3.** Cisco Catalyst IE3100 side view dimensions



**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 <sup>1</sup>   | Inrush Current <sup>1</sup>  | Power consumption <sup>2,3,4,5</sup> |
|--------------------|--|--|--|--------------------------------------|
| IE-3100-4T2S-E     | 12V to 48V nominal<br>9.6V to 60V absolute | 1.6 A with 12V input<br>0.8 A with 24V input<br>0.4 A with 48V input                             | 10 A for 7 ms with 12V input<br>6 A for 6 ms with 24V input<br>6 A for 6 ms with 48V input   | 14W                                  |
| IE-3100-8T2C-E     | 12V to 48V nominal<br>9.6V to 60V absolute | 2.0 A with 12V input<br>1.0 A with 24V input<br>0.5 A with 48V input                             | 10 A for 7 ms with 12V input<br>6 A for 6 ms with 24V input<br>6 A for 6 ms with 48V input   | 17.7W                                |
| IE-3100-8T4S-E     | 12V to 48V nominal<br>9.6V to 60V absolute | 2.0 A with 12V input<br>1.0 A with 24V input<br>0.5 A with 48V input                             | 10 A for 7 ms with 12V input<br>6 A for 6 ms with 24V input<br>6 A for 6 ms with 48V input   | 17.8W                                |
| IE-3100-18T2C-E    | 12V to 48V nominal<br>9.6V to 60V absolute | 4.2 A with 12V input<br>2.6 A with 24V input<br>1.3 A with 48V input                             | 10 A for 7 ms with 12V input<br>6 A for 6 ms with 24V input<br>6 A for 6 ms with 48V input   | 36.7W                                |
| IE-3100-18T2C-CC-E | 12V to 48V nominal<br>9.6V to 60V absolute | 4.2 A with 12V input<br>2.6 A with 24V input<br>1.3 A with 48V input                             | 10 A for 7 ms with 12V input<br>6 A for 6 ms with 24V input<br>6 A for 6 ms with 48V input   | 36.7W                                |
| IE-3100-4P2S-E     | 12V to 54V nominal<br>9.6V to 60V absolute | <ul><li>4.2 A with 12V input</li><li>2.6 A with 24V input</li><li>1.3 A with 48V input</li></ul> | 80 A for 1 ms with 12V input<br>80 A for 1 ms with 24V input<br>80 A for 1 ms with 48V input | 20W                                  |
| IE-3100-8P2C-E     | 12V to 54V nominal<br>9.6V to 60V absolute | <ul><li>4.2 A with 12V input</li><li>2.6 A with 24V input</li><li>1.3 A with 48V input</li></ul> | 80 A for 1 ms with 12V input<br>80 A for 1 ms with 24V input<br>80 A for 1 ms with 48V input | 20W                                  |
| IE-3105-8T2C-E     | 12V to 48V nominal<br>9.6V to 60V absolute | 3.2 A with 12V input<br>1.6 A with 24V input<br>0.8 A with 48V input                             | 10 A for 7 ms with 12V input<br>6 A for 6 ms with 24V input<br>6 A for 6 ms with 48V input   | 28W                                  |

| Product number  | Input Voltage Range  | Max Current during normal operation <sup>1</sup> | Inrush Current <sup>1</sup>  | Power consumption <sup>2,3,4,5</sup> |
|-----------------|----------------------|--|------------------------------|--------------------------------------|
| IE-3105-18T2C-E | 12V to 48V nominal   | 4.2 A with 12V input                             | 10 A for 7 ms with 12V input | 36.7W                                |
|                 | 9.6V to 60V absolute | 2.6 A with 24V input                             | 6 A for 6 ms with 24V input  |                                      |
|                 |                      | 1.3 A with 48V input                             | 6 A for 6 ms with 48V input  |                                      |

<sup>&</sup>lt;sup>1</sup> Max Current and Inrush current should be used for sizing power supplies and electrical wiring.

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 <sup>1</sup>                              | 1 GB, 4 GB                                   |

<sup>&</sup>lt;sup>1</sup> SD card is optional and is not shipped by default with the switch.

<sup>&</sup>lt;sup>2</sup> Power Consumption should be used for thermal load and battery capacity.

<sup>&</sup>lt;sup>3</sup> 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.

<sup>&</sup>lt;sup>4</sup> For BTU/hr, please convert the Power Consumption watts to BTU/hr

<sup>&</sup>lt;sup>5</sup> Power consumption does not include PoE Power.

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                      | PoE/PoE+<br>support <sup>3</sup> | More details  |
|--------------------|---------|--|----------------------------------|---|
| PWR-IE50W-AC=      | 50W     | AC 100-240V/1.25A 50-<br>60Hz<br>or<br>DC 125-250V/1.25A |                                  |   |
| PWR-IE50W-AC-L=1   | 50W     | AC 100-240V/1.2A 50-60Hz                                 |                                  |   |
| PWR-IE50W-AC-IEC=1 | 50W     | AC 90-264V   |                                  |   |
| PWR-IE65W-PC-AC=   | 65W     | AC 100-240V/1.4A 50-60Hz<br>or<br>DC 125-250V/1.0A       | Yes                              | For more details on<br>these DIN rail power<br>supplies, see the<br>power supplies data |
| PWR-IE65W-PC-DC=   | 65W     | DC 24-48VDC/4.5A   | Yes                              | sheet.  |
| PWR-IE170W-PC-AC=  | 170W    | AC 100-240V/2.3A 50-60Hz<br>or<br>DC 125-250V/2.1A       | Yes                              |   |
| PWR-IE170W-PC-DC=  | 170W    | DC 12-54VDC/23A  | Yes                              |   |
| PWR-IE240W-PCAC-L= | 240W    | AC 100-240V/2.5A 50-60Hz                                 | Yes                              |   |
| PWR-IE480W-PCAC-L= | 480W    | AC 100-240V/5.0A 50-60Hz                                 | Yes                              |   |

<sup>&</sup>lt;sup>1</sup> The power supplies are not certified for smart grid and hazardous locations. These power supplies are IP20 rated.

<sup>&</sup>lt;sup>2</sup> Power Supplies Datasheet Link: <a href="https://www.cisco.com/c/en/us/products/collateral/switches/industrial-ethernet-switches/datasheet-c78-742180.html">https://www.cisco.com/c/en/us/products/collateral/switches/industrial-ethernet-switches/datasheet-c78-742180.html</a>

<sup>&</sup>lt;sup>3</sup> The entire power budget for the switch and PoE ports need to stay within the power supply wattage.

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  |
|--|---|
| 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 2017 <sup>2</sup> ), 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) <sup>1</sup>   |

<sup>&</sup>lt;sup>1</sup> Supported on the IE-3105 variants only.

<sup>&</sup>lt;sup>2</sup> 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 <sup>2</sup>                 | Description   | Cisco Catalyst<br>Center Essentials <sup>1</sup> |
|--------------------------------------|---|--|
| 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  |

<sup>&</sup>lt;sup>1</sup> 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  |
|---|---|
| Industrial Automation Control<br>System       | IEC 62443-4-1<br>IEC 62443-4-2  |
| Emissions, immunity and regulatory compliance | FCC 47 CFR Part 15 Subpart B Class A EN 55032A Class A EN55035 VCCI Class A AS/NZS CISPR 32 Class A, AS/NZS CISPR35 ICES 003 Class A BMSI-Taiwan CNS15936 KCC -Korea KS C9832, KS C9835 CE EU RCM-(Australia/ New Zealand) Brazil Anatel certification² India TEC Certification² 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 61000-4-5 (Surge 2KVL-G and 1KVL-L) IEC/EN 61000-4-6 (Conducted Immunity, 10 V/ms) IEC/EN 61000-4-8 (Power Frequency Magnetic Field Immunity)² IEC/EN 61000-4-9 (Pulse Magnetic Field Immunity)² IEC/EN 61000-4-10 (Oscillatory Magnetic Field Immunity)² |

<sup>&</sup>lt;sup>2</sup> Does not represent all support Cisco Catalyst Center features. Refer to Catalyst Center datasheet for additional information.

| Descriptions                        | Specifications   |
|-------------------------------------|--|
|                                     | IEC/EN 61000-4-29 (Voltage Dips Immunity) <sup>2</sup> IEC/EN 61000-6-1 (Immunity for Light Industrial Environments) IEC/EN 61000-6-2 (Immunity for Industrial Environments) 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 DnV¹ Substation / Utility (IEEE 1613, IEC 61850-3)² EN50121-3-2 EN50121-4 NEMA TS-2 (EMC, environmental, mechanical) ABB Industrial IT certification² IP30 ODVA Industrial Ethernet/IP support PROFINETv2.3 support   |
| Safety standards and certifications | Information Technology Equipment:  • 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:   |

| Descriptions        | Specifications   |
|---------------------|--|
|                     | 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)   |
| Storage environment | Temperature: -40° to 85°C (-40° to 185°F) Altitude: 40,000 feet (12,192 m) IEC 60068-2-14  |
| Humidity            | IEC 60068-2-30 Relative humidity: 5% to 95% noncondensing <sup>1</sup>   |
| 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 mist, method 3) <sup>2</sup> IEC60068-2-60 (flowing mixed gases) <sup>2</sup>   |
| Railway             | EN50125-1: 2014<br>EN50125-3: 2003   |
| Warranty            | Five-year limited hardware warranty on all IE3100 Rugged Series product IDs and all Industrial Ethernet (IE) power supplies. See more information in the Warranty section.   |

<sup>&</sup>lt;sup>1</sup> 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-3100-18T2C-CC-E | 777,450                                       |
| IE-3100-4P2S-E     | 755,460                                       |
| IE-3100-8P2C-E     | 682,250                                       |
| IE-3105-8T2C-E     | 774,680                                       |
| IE-3105-18T2C-E    | 642,050                                       |

 $<sup>^{2}\,\</sup>mbox{Certification}$  in progress for IE-3100-4P2S-E and IE-3100-8P2C-E

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

**Table 13.** Management and standards\*

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

| 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.

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<br>monitoring<br>(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        | COM               | No   |
| GLC-FE-100EX=     | 100BASE-EX     | FE       | 40km         | SMF        | COM               | No   |
| GLC-FE-100ZX=     | 100BASE-ZX     | FE       | 80km         | SMF        | COM               | No   |
| GLC-FE-100BX-D=   | 100BASE-BX10   | FE       | 10km         | SMF        | COM               | 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        | СОМ               | Yes  |

| Part number                 | Specification      | SFP type | Max distance | Cable type | Temperature range | Digital optical<br>monitoring<br>(DOM) support |
|-----------------------------|--------------------|----------|--------------|------------|-------------------|--|
| CWDM-SFP-xxxx= (8 freq)     | CWDM<br>1000BASE-X | GE       |              | SMF        | СОМ               | Yes  |
| DWDM-SFP-xxxx=<br>(40 freq) | DWDM<br>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    | СОМ               | 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 <a href="https://www.cisco.com/en/US/products/hw/modules/ps5455/products">https://www.cisco.com/en/US/products/hw/modules/ps5455/products</a> 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-3100-18T2C-CC-E | Catalyst IE3100 w/18 Ports GE Copper and 2 GE Combo uplinks, Conformal Coating, NE |
| IE-3100-4P2S-E     | Catalyst IE3100 w/4 PoE+ GE Copper and 2 GE SFP uplinks, NE                        |
| IE-3100-8P2C-E     | Catalyst IE3100 w/8 PoE+ GE Copper and 2 GE Combo uplinks, NE                      |

| Product ID         | Description  |
|--------------------|--|
| 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  |
| 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     |

#### 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: <a href="https://www.cisco.com/c/en/us/products/warranties/warranty-doc-c99-740591.html">https://www.cisco.com/c/en/us/products/warranties/warranty-doc-c99-740591.html</a>.

#### 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 Corporate Social Responsibility (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 5. Physical configurations    |  |  |  |
| Environmental characteristics                            |                                     |  |  |  |
| Operating temperature, industry standards, EMC emissions | Table 11. Compliance specifications |  |  |  |
| Material   |                                     |  |  |  |
| Unit weight  | Table 5. Physical configurations    |  |  |  |

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

#### Cisco Services

For information on services, visit <a href="https://www.cisco.com/web/services/">https://www.cisco.com/web/services/</a>.

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#### For more information

For more information about the Cisco IE 3100 Rugged Series, visit <a href="https://www.cisco.com/go/ie3100">https://www.cisco.com/go/ie3100</a> or contact your local account representative.

## Document history

| New or revised topic                                    | Described in  | Date         |
|---|---|--------------|
| IE-3100-4P2S-E, IE-3100-8P2C-E, IE-3100-18T2C-CC-E      | Various Sections and Tables                                 | June 2024    |
| SEA Support   | Table 1   | January 2024 |
| DNA name change to Catalyst Center, Addition of UL60101 | Entire Datasheet, <u>Compliance</u><br><u>Specification</u> | October 2023 |
| IE-3100-8T4S-E  | Various Sections and Tables                                 | July 2023    |

Americas Headquarters Cisco Systems, Inc. San Jose, CA Asia Pacific Headquarters Cisco Systems (USA) Pte. Ltd. Singapore Europe Headquarters Cisco Systems International BV Amsterdam, The Netherlands

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