

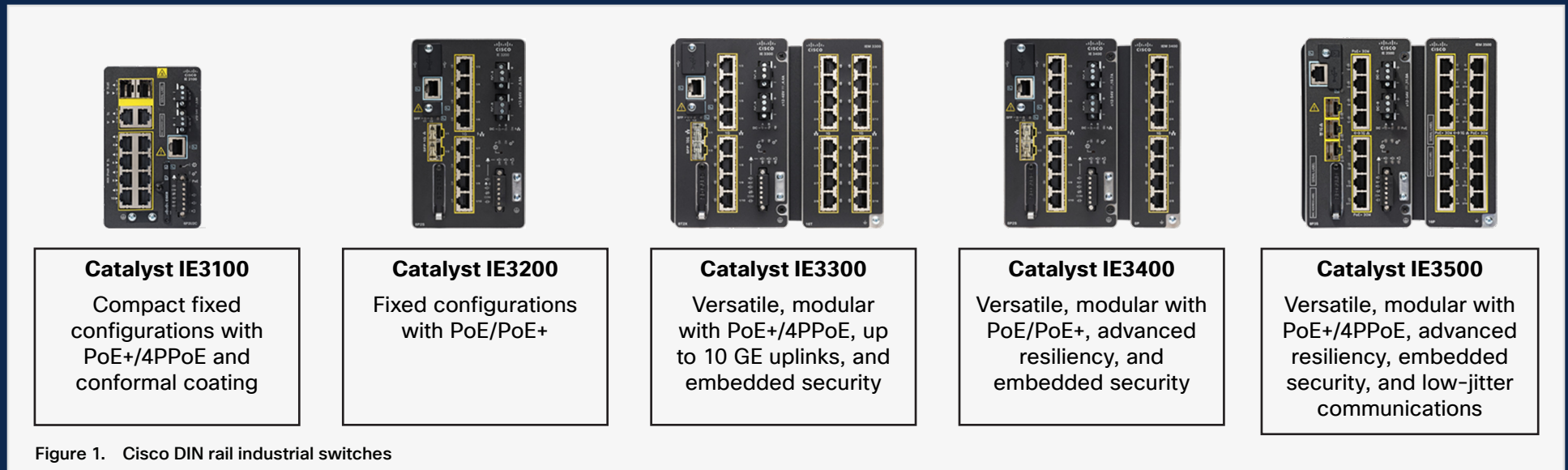
# Cisco DIN Rail Industrial Switches

## Build an AI-ready infrastructure

With robust, reliable, secure networking and low-latency, high-bandwidth communications, Cisco® DIN rail industrial switches help build the infrastructure necessary to support AI applications and accelerate innovation in demanding environments. Purpose-built for harsh conditions and critical industrial applications, these

switches feature industrial-strength durability and resilience with enterprise-grade scalability and manageability for building scalable and agile industrial networks. Cisco DIN rail industrial switches integrate security features that allow you to assess your security posture, dynamically segment your network, provide secure remote

access to OT assets, and protect crucial infrastructure from cyberattacks. Their support for industrial Power over Ethernet (PoE) allows the delivery of both power and data over a single cable, simplifying the deployment of cameras, sensors, and wireless access points.



The Cisco DIN rail industrial switches bring scale, agility, security, and the power of AI to industrial applications with the following capabilities.

Table 1. Features and benefits.

Feature	Benefit
Robust industrial design	<ul style="list-style-type: none"> <li>• Built for harsh environments and temperature ranges (-40° to 75°C, -40° to 167°F)</li> <li>• Fanless, convection cooled with no moving parts for extended durability</li> <li>• Hardened for vibration, shock and surge, and electrical noise immunity</li> <li>• Compliant with multi-industry specifications for automation, intelligent transportation system, and substation environments</li> <li>• Conformal coating for added environmental protection</li> </ul>
Full Gigabit Ethernet interfaces	<ul style="list-style-type: none"> <li>• Provides secure access for new high-speed applications in the industrial space</li> <li>• Packs up to 20x 1GE uplink and downlink RJ-45, fiber, or combo ports in base models. Select models support multigigabit downlink and up to 3x 10GE uplink ports</li> <li>• Select models are modular and can be expanded to up to 26 total ports by attaching one of eight compatible modules with RJ-45 or fiber port options</li> </ul>
High-density industrial PoE	<ul style="list-style-type: none"> <li>• Support for up to 24 PoE/PoE+/4PPoE, up to 90W per port, with a total power budget of up to 480W per switch</li> <li>• Controls costs by limiting the need for wiring, distribution panels, and circuit breakers</li> <li>• Reduces equipment needs, thus requiring less space and reducing heat dissipation</li> <li>• Innovative PoE features help ensure an uninterrupted power supply to industrial assets</li> </ul>
Swap Drive: “zero-config” replacement	<ul style="list-style-type: none"> <li>• True zero-touch provisioning and simple switch replacement in case of a failure</li> <li>• No networking expertise required</li> <li>• Helps ensure fast recovery</li> </ul>
Built-in and embedded visibility and security for a unified OT security and networking architecture	<ul style="list-style-type: none"> <li>• Cyber Vision sensor to gain granular visibility into connected assets and traffic flows, assess vulnerabilities, and define segmentation policies</li> <li>• Automated and dynamic segmentation for ISA/IEC 62443-based creation of zones and conduits to restrict traffic flows and contain malware</li> <li>• Secure Equipment Access gateway for zero-trust remote access, providing a simple, scalable, controlled, and secure way to configure, maintain, update, and monitor industrial assets remotely</li> <li>• Edge Intelligence to collect process data in real time to improve governance and enable better business decisions</li> </ul>

Feature	Benefit
Connectivity in constrained spaces	<ul style="list-style-type: none"> <li>Enables connectivity to assets in tight spaces such as in roadside cabinets, within customer-built machinery, and along railroads and pipelines</li> </ul>
Low-latency, high-bandwidth communications	<ul style="list-style-type: none"> <li>Deterministic time-sensitive data transfers and high-bandwidth ports enable rapid and efficient transfer of operational data to AI applications, boosting industrial innovation</li> </ul>
Cisco ThousandEyes Assurance for Industrial Networks	<ul style="list-style-type: none"> <li>Embedded ThousandEyes agent provides comprehensive visibility and insights into complex networking environments and offers a powerful solution for industrial organizations seeking to improve the reliability, security, and performance of both their owned and unowned networks</li> </ul>
Intelligent management	<ul style="list-style-type: none"> <li>Cisco Catalyst Center for intelligent management to automate routine networking tasks, monitor performance, help identify and resolve issues, and enforce consistent policies across both the enterprise and industrial networks</li> <li>Certain DIN rail models can also be managed by the cloud-based Meraki® dashboard</li> </ul>

## Use cases

Following are some examples of use cases for the Cisco DIN rail industrial switches.

### Ruggedized networks

Extend the enterprise network to rugged environments such as parking lots, garages, warehouses, distribution centers, sports stadiums, entertainment venues, airports, etc., to gain the same level of efficient management and security as the enterprise.

### Manufacturing

Enable seamless, reliable, low-jitter communications and data flow between diverse machinery, sensors, and control systems, vital for automating processes, maximizing uptime, and enabling data-driven decision-making.

### Utilities

Help ensure reliable and secure communication across critical infrastructure and facilitate real-time exchange of data from Intelligent Electronic Devices (IEDs) and monitoring systems, enabling precise control and automation of power distribution and grid stability.

### Roadways

Provide the network infrastructure for intelligent transportation systems, enabling communication between traffic cameras, sensors, variable message signs, and control centers to facilitate real-time traffic monitoring, incident management, and automated traffic signal control.

### Custom industrial solutions

Connect individual components within complex sophisticated machines for custom-built turnkey industrial solutions.

## Discover more

To learn more about the Cisco DIN rail Rugged Series industrial switches, visit:

- [cisco.com/go/ie](https://cisco.com/go/ie)
- [cisco.com/go/ie3100](https://cisco.com/go/ie3100)
- [cisco.com/go/ie3200](https://cisco.com/go/ie3200)
- [cisco.com/go/ie3300](https://cisco.com/go/ie3300)
- [cisco.com/go/ie3400](https://cisco.com/go/ie3400)
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## Key benefits

With the Cisco DIN rail industrial switches, you can:

- **Enable industrial AI strategies** with low-jitter data transfers for time-sensitive data, high-speed ports, resilient connectivity, end-to-end visibility, high-wattage PoE, and robust cybersecurity to help maximize uptime, assist in software-defined automation, and ease the use of AI applications.
- **Ease deployment, improve performance, lower costs, and increase security** in industrial networks by using the same proven management and security tools that you use in the enterprise.
- **Protect your investments.** Streamline your growing connectivity needs with the switches' modular, versatile design.
- **Accelerate your digital transformation** with Gigabit Ethernet speeds on every port.
- **Reduce installation complexity** with PoE which uses one cable for connectivity and power.
- **Install them almost anywhere.** Ruggedized and compact, Cisco DIN rail industrial switches are perfect for installations into space-constrained, industrial, or outdoor areas.
- **Qualify and securely deploy services more quickly** using the programmable, open, and standards-based APIs of the Cisco IOS® XE operating system, now on Cisco DIN rail industrial switches.
- **Protect critical industrial assets.** Embedded applications in Cisco DIN rail switches give you deep visibility into connected assets, protect them with multilevel segmentation, and provide controlled secure remote access. These switches also meet stringent secure-by-design requirements and are IEC 62443-4 certified to comply with strict cybersecurity regulations such as Europe's NIS-2 Directive.
- **Have sensor-to-cloud visibility** with ThousandEyes agents that can be installed on certain switch models, for end-to-end visibility by employing a combination of active and passive monitoring techniques, and providing a comprehensive view of network and application performance across various environments.
- **Facilitate IT/OT partnerships:** A common operating system, management platform, and security applications fosters collaboration, allowing IT and OT teams to work together more effectively toward shared operational goals.