

Cisco Catalyst Industrial Ethernet IE3x00 Rugged Series Switches

Bring scale, agility, and security to the IoT edge

Cisco Catalyst IE3x00 Rugged Series switches feature advanced, full Gigabit Ethernet with a modular, future-proof design. Expandable up to 26 ports in a compact form factor, these rugged

switches are optimized for size, power and performance. They feature up to 24 ports of PoE/PoE+ or 4PPoE are ready for Cisco Software-Defined Access, enable the scale and

simplicity of cloud-delivered OT services, and bring the power of Cisco Software-Defined Networking (SDN) to industrial ethernet applications.



Catalyst IE3100

Ultra-compact fixed configurations with PoE/PoE+ and conformal coating



Catalyst IE3200

Compact and fixed configuration with PoE/PoE+



Catalyst IE3300

Compact, versatile, modular with PoE/PoE+/4PPoE and up to 10GE uplinks



Catalyst IE3400

Compact, versatile, modular, with PoE/PoE+, and advanced resiliency

The Cisco Catalyst IE3x00 Rugged Series brings scale, agility, and security to the IoT edge with the following capabilities.

Table 1. Features and benefits.

Feature	Benefit
Robust Industrial Design	<ul style="list-style-type: none"> • Built for harsh environment and temperature range (-40 to 75 C) • 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, ITS, and substation environments • Conformal coating for added environmental protection
Full Gigabit Ethernet Interfaces	<ul style="list-style-type: none"> • Provides secure access for new high speed applications in the industrial space • Packs up to 20x 1GE uplink and downlink RJ-45, fiber, or combo ports in base models. Select models support Multigigabit downlink and 10GE uplink ports • 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
High-density industrial Power over Ethernet (PoE)	<ul style="list-style-type: none"> • Support for up to 24 PoE/PoE+, or 4PPoE ports with a total power budget of up to 480W • Controls costs by limiting wiring, distribution panels, and circuit breakers • Reduces equipment needs, thus requiring less space and reducing heat dissipation • Innovative PoE features to help ensure uninterrupted power supply to industrial assets
SwapDrive: “zero-config” replacement	<ul style="list-style-type: none"> • True zero-touch provisioning and simple switch replacement in case of a failure • No networking expertise required • Helps ensure fast recovery
Built-in security services for a unified OT security and networking architecture	<ul style="list-style-type: none"> • Cyber Vision sensor for granular visibility into connected assets and traffic flows, assess vulnerabilities, and define segmentation policies • Automated and dynamic segmentation for ISA/IEC 62443-based creation of zones and conduits to restrict traffic flows and contain malware • 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 • Edge Intelligence to collect process data in real-time to improve governance and make better business decisions

Use cases

Following are some examples of use cases for the Cisco Catalyst IE3x00 Rugged Series.

Warehouses and distribution centers

Enhance safety and operations with real-time visibility by securely connecting various warehouse systems.

Manufacturing

Automate, reduce downtime, and increase productivity by connecting sensors, machines, and other IoT devices.

Utilities

Quickly identify and fix problems, limit downtime, and reduce outages and costs.

Roadways

Connect sensors, IP cameras, digital signage, and other IoT devices to deliver real-time traffic monitoring and increase traffic flow and safety.

Custom industrial solutions

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

Constrained spaces

Easily deploy in space constrained cabinets such as those at traffic intersections, along railroads and pipelines, and at solar or wind farms.

Key benefits

With the Cisco Catalyst® IE3x00 Rugged Series, you can:



Ease deployment, ensure performance, lower costs, and increase security in industrial networks by utilizing the same proven management and security tools that you use in the enterprise.



Future-proof your investments. The Catalyst IE3x00 Rugged Series adapts to your growing connectivity needs with its modular, versatile design.



Accelerate your digital transformation with Gigabit Ethernet speeds on every port.



Reduce installation complexity with Power over Ethernet (PoE) and PoE+, which use one cable for connectivity and power.



Install it almost anywhere. Ruggedized and compact, the Cisco Catalyst IE3x00 Series is 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 the Catalyst IE3x00 Rugged Series.



Run essential OT security services directly on switches to increase visibility, provide secure remote access, and collect real-time data for better business decisions.

Discover more

To learn more about the Cisco Catalyst IE3x00 Rugged Series, Visit:

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- cisco.com/go/ie3300
- cisco.com/go/ie3100
- cisco.com/go/ie3400
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