

Cisco Industrial Ethernet Switching Portfolio

Resilient, easy-to-deploy Switches enable scaling Internet of Things

A manufacturer sees its build-to-order cycle times improve by up to 25 percent with a more flexible, integrated plant and IT infrastructure. A transportation department with sensors deployed throughout its track and train system is alerted to a malfunction on its track-signaling system days before it can cause a serious accident. And an electrical utility identifies fault locations and restores service 20 percent faster than before.

This is what's possible when Cisco Industrial Ethernet (IE) switches are deployed as part of an integrated, converged Information Technology (IT) and Operational Technology (OT) network. One that also prepares you to capture new opportunities and achieve greater efficiencies as your network expands dramatically with end devices and sensors in the age of the Internet of Things (IoT).

The Cisco® Industrial Ethernet (IE) switching portfolio includes ruggedized, secure, easy-to-use switches built for extending the enterprise to harsh, industrial environments. They provide secure connectivity across challenging environments and industries such as manufacturing, utilities, transportation, oil and gas, mining, and smart cities.

Benefits



Reduced downtime with managed Ethernet switches that are more reliable and include high-availability technology to ensure resilient networks, even in extreme industrial environments



Lower operational costs with zero-touch deployment that automates connecting thousands of new endpoints as part of Internet of Things (IoT) deployments



Increased IT and operations team efficiency with a single, standardized operation system



Real-time visibility to monitor, manage, and react across the whole network, from any location



Improved security with cyber and physical network-wide security policies that also deliver unparalleled visibility and control



Investment protection with modular switches that scale with IoT device growth and software licensing that gives you new and improved software features without hardware upgrades



Cisco Catalyst IE3400 Rugged Series

- Advanced modular DIN rail switch expandable up to 26 ports
- All Gigabit Ethernet platform, layer 2 or layer 3
- Up to 24 ports of PoE/PoE+ [Power budget up to 480W]
- Copper, fiber, and PoE+ expansion modules
- Cisco DNA Center for management
- SD-Access policy extended node
- Advanced industrial protocols and additional security features
- Edge compute, Cisco Cyber Vision



Cisco Catalyst IE3400 Heavy Duty Series

- Wall mount IP66/IP67 switch with M12 interfaces
- Up to 24 all Gigabit Ethernet or all Fast Ethernet ports, Layer 2 or layer 3
- Cisco DNA Center for management
- SD-Access policy extended node
- Advanced industrial protocols and additional security features
- Edge compute, Cisco Cyber Vision



Cisco Catalyst IE3300 Rugged Series

- Modular DIN rail switch expandable up to 26 ports
- All Gigabit Ethernet platform, layer 2 or layer 3
- Up to 24 ports of PoE/PoE+ [Power budget up to 360W]
- Copper, fiber, and PoE+ expansion modules
- Cisco DNA Center for management
- SD-Access extended node



Cisco Catalyst IE3200 Rugged Series

- Fixed DIN rail switch, 10 ports
- All Gigabit Ethernet platform, layer 2
- 8 ports of PoE/PoE+ [Power budget up to 240W]
- Cisco DNA Center for management



Cisco Catalyst IE9300 Rugged Series

- 19" rack mount switch, 28 ports
- All Gigabit Ethernet platform, layer 2 or layer 3
- 26 Fiber + 2 Combo GE ports
- Cisco IOS XE Software
- Backplane stacking with StackWise 160
- Advanced industrial protocols and additional security features
- Lossless redundancy protocols
- Edge compute, Cisco Cyber Vision
- Cisco DNA Center for management
- SD-Access fabric edge node



Cisco IE 4000 Series Switches

- Fixed DIN rail switch, up to 20 ports
- 4x 1G combo uplinks
- All Gigabit Ethernet platform, layer 2 or layer 3
- Up to 8 ports of PoE/PoE+ [power budget up to 200W]
- Advanced industrial protocols and additional security features
- Cisco DNA Center management
- SD-Access extended node



Cisco IE 5000 Series Switches

- 19" rack mount switch, 28 ports
- All Gigabit Ethernet platform, layer 2 or layer 3
- 4 x 10G fiber uplinks (on select models)
- Up to 12 ports of PoE/PoE+ [power budget 360W]
- Horizontal stacking up to 4 members
- GNSS/GPS antenna interface
- Advanced industrial protocols and additional security features
- Conformal coating (on select model)
- Cisco DNA Center management
- SD-Access extended node



Cisco IE 4010 Series Switches

- 19" rack mount switch, 28 ports
- All Gigabit Ethernet platform, layer 2 or layer 3
- Up to 24 ports of PoE/PoE+ [power budget up to 385W]
- Advanced industrial protocols and additional security features
- Cisco DNA Center management
- SD-Access extended node



Cisco Industrial Ethernet 2000U Series Switches

- Optimized for use in utilities
- Fixed DIN rail switch, up to 20 ports
- Up to 18 x FE ports, 2 x 1 G uplinks
- Layer 2 or layer 3
- Up to 4 ports of PoE/PoE+ [power budget up to 120W]
- Conformal coating (on select model)
- Cisco DNA Center management



Cisco IE 2000 Series Switches

- Fixed DIN rail switch, up to 20 ports or Wall mount, IP67 rated, up to 24 ports with M12 interfaces
- Up to 18 x FE ports, 2x 1G combo uplinks (on select models)
- Layer 2 or layer 3 (limited features)
- Up to 4 ports of PoE/PoE+ [power budget up to 120W]
- Conformal coating (on select model)
- Optimized for use in utilities (select models)
- Cisco DNA Center management



Cisco IE 1000 Series Switches

- Fixed DIN rail switch, up to 10 ports
- Up to 8 x FE ports, 2x 1G combo uplinks (on select models)
- Lightly managed layer 2
- Up to 8 ports of PoE/PoE+ [power budget up to 180W]
- Security: Port security, TACACS, 802.1X
- Plug and Play (PnP) for easy deployment

Next steps

To find out more about
Cisco's Industrial Ethernet Switching Portfolio, visit www.cisco.com/go/ie