



Cisco Digital Manufacturing Solutions and Products



Expected Business Outcomes

- Minimized unplanned downtime
- Improved overall equipment effectiveness
- Reduced product defects
- Increased inventory turns
- Faster cycle time for new product introductions
- Lower total cost of ownership



Cisco Digital Manufacturing Solutions

Connected Factory: Improves security, operational efficiency, and productivity with end-to-end digital architecture for the manufacturing plant.

Connected Factory Network: Integrates automation and enterprise systems onto a standards-based IP-network.

Connected Factory Wireless: Provides flexible, plantwide communications between things, machines, databases, and people on the plant floor with easy-to-manage and highly secure plant wireless infrastructure.

Connected Factory Security: Protects plant assets with converged-access security products, technologies, and services.

Connected Factory Profinet: Integrates Profinet onto a standards-based IP-network.

Connected Machines: Enable rapid and repeatable machine connectivity, improving overall equipment effectiveness (OEE), machine monitoring, machine and process optimization, and predictive maintenance.



Cisco Products for Manufacturing

Cisco Industrial Ethernet 1000 Series Switches (IE 1000)

- Very compact, lightly managed industrial switches designed to meet the specific needs of industries, such as manufacturing, energy, and cities

Cisco Industrial Ethernet 2000 Series Switches (IE 2000)

- A range of compact, ruggedized access switches that handle security, voice, and video traffic across industrial networks

Cisco Industrial Ethernet 3000 Series Switches (IE 3000)

- A family of Layer 2 and Layer 3 switches bringing innovative features, robust security, and superior ease of use

Cisco Industrial Ethernet 4000 Series Switches (IE 4000)

- Ruggedized, fully managed industrial Ethernet switches running IOx-enabled fog applications

Cisco Industrial Ethernet 4010 Series Switches (IE 4010)

- Switches built to withstand extreme environments while adhering to overall IT network design, compliance, and performance requirements; ideal where a large number of PoE/PoE+ high-speed interfaces are required

Cisco Industrial Ethernet 5000 Series Switches (IE 5000)

- Switches built to withstand extreme environments; ideal for applications where hardened, highly scalable products are required

Cisco 829 Industrial Integrated Services Routers (IR 829)

- Routers providing 3G/4G LTE WAN cellular and wireless LAN connectivity for mobile and harsh environments

Cisco 3000 Series Industrial Security Appliances (ISA 3000)

- Security device with uncompromising end-to-end security, designed specifically to withstand the harshest industrial environments

Cisco IOx

- Software that enables distributed fog applications to execute within the network infrastructure

Fog Applications

- Applications that transform IoT sensor data and perform control functions within the distributed network infrastructure

Cisco Connected Streaming Analytics

- Software that delivers insight from high-velocity streams of live data from multiple sources so you can take immediate action

Cisco Unified Computing System (Cisco UCS)

- Software that simplifies data center architecture; reduces the number of devices to purchase, deploy, and maintain; and improves speed and agility



Cisco Services

- Mitigate deployment risk and improve safety.
- Converge multiple proprietary systems into a single, secure, flexible, and scalable IP network.
- Accelerate deployment of manufacturing solutions.
- Provide expertise that puts technology to work.



Cisco Partners

The Cisco IoT portfolio along with partner offers provide a complete end-to-end solution for digital manufacturing.

For more information, visit www.cisco.com/go/manufacturing.