



Cisco Catalyst IR8300 Rugged Series Router

5G, all-in-one industrial-grade routing and switching platform

Manage, and automate time-consuming processes. Boost cyber security – and understand which sensors are talking to each other

Whether it's aggregating vast quantities of network traffic that are feeding smart connected roadway and rail, oil and gas midstream pipelines, or substation resources in the neighborhood, the need for a highly secure and scalable rack-mounted router in industrial and operational settings has never been greater.

The number of sensors at the industrial network edge continues to grow, as well as the need for visibility and control from both IT and operations. Many organizations are moving away from having multiple networks for IT and operations and the additional administrative, time, and security issues they entail, and instead are seeing the value of converging to a standards-based IP network to accomplish their goals, whether it be monitoring and taking action based on changing road conditions or implementing substation automation.

Introducing the Cisco Catalyst® IR8300 Rugged Series Routers. The first all-in-one industrial-grade, integrated routing, switching, and security platform.



Benefits

- **Enhanced, multilayer security** delivers the next level of zero trust to your industrial environments, from the manufacturing process to numerous available security features, including Cisco TrustSec®, Unified Threat Defense, and more. The IR8300 also supports Cisco® Cyber Vision to deliver industrial control system (ICS) visibility at the asset level.
- **Lower TCO.** You get an all-in-one platform with dual data planes for both routing and switching. The modular design supports public and private LTE, 5G, FirstNet, and more. The Catalyst IR8300 is easily upgradable. Use modules from other Cisco IoT platforms.
- **Cisco SD-WAN your way with scale and unified management.** Enterprise-grade security and network policies to connect users, devices, and branch office locations reliably and securely across a diverse set of WAN transport links using Cisco vManage for SD-WAN and Cisco DNA Center.
- **Built-in edge compute** resources and available Cisco IOx support to build and run your own applications at the edge. The IR8300 is ready to host advanced, revenue-generating services.
- **Precision timing source** to synchronize network resources hosting highly time-sensitive applications.
- **Utility certified** (IEEE1613 and IEC61850).

Use cases

Utilities

Substation automation: Meets the communications infrastructure needs of the energy delivery infrastructure across the generation, transmission, and distribution sectors.

Oil and gas – midstream

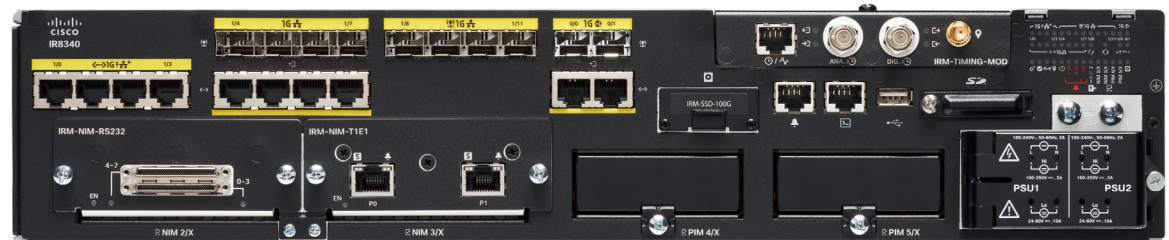
Provides secure, scalable traffic aggregation at pumping stations.

Transportation

Serves as a regional hub router or hub that aggregates roadside or trackside cabinets.

Service provider

Cell sites: Serves as an industrial-grade platform with IPsec for mobile backhaul.



Next steps

To learn more about the IR8300 and how our portfolio of industrial routers can help you connect what matters most to you, visit: www.cisco.com/go/ir8300