

Cisco Catalyst IR1800 Rugged Series Routers

Industrial Catalyst router for everywhere you go and everything you connect

Cisco Catalyst IR1800 Rugged Series Routers are secure, high-performance, 5G routers in a modular design that support private LTE, FirstNet*, Wi-Fi6 and Gigabit Ethernet. The series is purpose-built for mobile and remote use cases in multiple industries. Designed with a high level of modularity, the routers can be customized to help you reduce costs and protect your networking investments, keeping in mind the needs of tomorrow. With high bandwidth and throughputs from 5G and Wi-Fi 6, they enable you to power seamless experiences and drive efficiency.

The IR1800 Series offers enterprise-grade security from the hardware to the network communications all the way to the industrial assets. Scale and simplify operations with powerful network management tools for configuration and monitoring.



Benefits

Cisco® Catalyst® IR1800 Rugged Series Routers bring you the following benefits:

- **Deploy in mobile and remote environments:** Purpose-built for secure, high-performance, reliable connectivity in mobile industrial environments. Take your network wherever you go
- **Protect your investments and lower TCO:** Keep up with newer technologies with the ultra-modular design. You no longer need to replace the entire router, just plug in a new module
- **Boost security to reduce cyber risk:** Built in multilayered enterprise-grade security protects your network from attacks
- **Scale and simplify operations:** Easy to deploy and manage from anywhere with Cisco management tools that are familiar for IT and operations teams
- **Enable industrial deployments:** Ruggedized design is built for harsh environments and temperature ranges

Use cases

- **Passenger and service fleet:** Keep your fleet connected wherever they go and effectively track vehicles in real time through built-in GPS. Power a seamless experience for passengers on board with Wi-Fi 6. Reduce unplanned maintenance and repairs, and minimize operating expenses with route optimization.
- **Public safety:** Improve public safety and security, provide better response time, and increase cost efficiencies with secure, reliable access to real-time data in police cars and first responder vehicles.
- **Mass transit:** Enable fast and reliable onboard Wi-Fi, location-based services, and automated ticketing for passengers. Use data insights from the vehicles for operational efficiencies and to reduce maintenance costs.
- **Oil and gas:** Monitor pipelines to optimize production, and help prevent unplanned downtime. Enhance equipment monitoring to help prevent faults and reduce costs.

Extend your network – wherever you need it

Capability	Benefit
Reliable connectivity for mission-critical mobile environments	<ul style="list-style-type: none">• Certified for transportation, which makes them ideal for transit and public safety applications• With dead reckoning GNSS, you can find the exact location of your fleet even if you lose line-of-sight satellite connectivity• Keep the router running while the vehicle is turned off with ignition power management. Protect the vehicle battery with advanced power management• Controller Area Network (CAN bus) support allows vehicle data to be used for telematics, enabling predictive maintenance, reducing the cost of fuel, and enhancing safety
Modular design	<ul style="list-style-type: none">• Ultra-modular design supports evolving business and technical needs, protecting your investments• Single router with many different modules, including LTE, private LTE, 5G, Wi-Fi, FirstNet*, CBRS, SSD, and advanced global navigation satellite system
Security	<ul style="list-style-type: none">• Multilayer enterprise-grade security• Deploy Cisco Cyber Vision on the router to get visibility into industrial assets
Edge computing	<ul style="list-style-type: none">• Built-in edge compute resources and Cisco IOx support to build and run your own applications at the edge• Unlock business intelligence with Cisco Edge Intelligence
SD-WAN	<ul style="list-style-type: none">• Deploy Cisco SD-WAN to effectively manage hundreds of disparate locations, lowering TCO and operating at scale

Call to action

- To learn more about the Cisco Catalyst IR1800 Rugged Series Routers, visit [here](#).
- Learn more about the industrial routing portfolio [here](#).

*FirstNet certification in process