



The bridge to possible

At a glance
Cisco public

Cisco Catalyst IR1100 Rugged Series Routers

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Future-proof your Internet-of-Things (IoT) deployments

Cisco Catalyst IR1100 Rugged Series Routers deliver secure IoT connectivity for today and the future. The 5G ready design allows you to upgrade to new communications protocols when they become available, avoiding costly rip-and-replace. Add or upgrade WAN, edge compute and storage components as technologies and your needs evolve. With its rugged hardware and compact form-factor, you can install it almost anywhere.



Key benefits

Cisco Catalyst IR1100 Rugged Series Routers, you can:



Future-proof your IoT deployments

Internal and expansion modules give you the flexibility to add or upgrade WAN and storage components as technologies and your needs evolve.



Connect reliably, concurrently, and at a high speed

when provisioned with two cellular modules. The IR1101 is futureproofed for 5G.



Install it almost anywhere

Ruggedized, compact, and with low-power consumption, the IR1101 is perfect for installations into space-constrained, industrial, or outdoor areas.



Scale, with simplicity and unified management

using Cisco DNA Center and Cisco Software-Defined WAN.



Qualify and securely deploy services more quickly

using the highly programmable, open, and standards-based APIs of the Cisco IOS® XE operating system.

Extend your network to the harshest environments with the following capabilities

Table 1. Key features and benefits

| Features | Benefits |
|--|---|
| Modularity and investment protection | A single form factor with multiple WAN (LTE, LTE-Advanced, SFP Ethernet) and storage options enable flexibility to add or upgrade modules as technologies evolve. |
| Dual active LTE-capable | The two cellular modules enable concurrent connectivity to two cellular networks for WAN redundancy, enhanced data throughputs, load balancing, and differentiated services. |
| Cisco IOS XE Software | Open and standards-based APIs with programmable manageability. Enables end-to-end security with next-generation encryption, and reduces business and network complexity allowing you to deploy new services faster. |
| Cisco Software-Defined WAN (SD-WAN) capable | High WAN availability and simplicity for large-scale distributed networks. |
| Industrial security | Multi-layer security for mission-critical deployments. Cisco Trust Anchor technologies to ensure authenticity of hardware and software; hardware-accelerated next-generation encryption and Quantum computer-resistant algorithms; firewall and VPN services; and alerts and notifications for physical and cyber security. |

¹ LTE-Advanced is supported only on the base platform

Use cases

Following are a few examples of use cases.

Utilities

Remotely manage thousands of miles of unmanned power grids between distribution substations and control centers. Improve power flow, Volt-VAR optimization, and fault detection and isolation, resulting in reduced outage durations and costs.

Public safety and transportation

Increase reliability with redundant WAN connectivity. Accelerate decision making at the edge for mission-critical applications such as public safety, regulating traffic flow, and detecting traffic violations.

Oil and gas

Make decisions at the edge for faster response. Utilize cellular redundancy to manage thousands of miles of remote oil and gas pipelines to quickly identify and fix problems, limit downtime, and reduce cost.

Finance and extended enterprises

Extend your branch network to remotely manage ATM machines. Utilize Cisco SD-WAN for simple, scalable deployment. Secure financial transactions with high-end multilayer security and redundant, high-speed connectivity.

Discover more

To learn more about the Cisco Catalyst IR1100 Rugged Series Routers, visit: <https://www.cisco.com/go/ir1100>.

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