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CISCO

The bridge to possible

Cisco IR1101 Integrated Services Router Rugged

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

Cisco IR1101 delivers secure IoT connectivity for today and the future. Its 5G ready modular 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.

Cisco IR1101 with expansion module   **Cisco IR1101**

Key benefits

With the Cisco® IR1101 Integrated Services Router Rugged (IR1101), 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 future-proofed 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, now on the IR1101.

Qualify and securely deploy services more quickly using the highly programmable, open, and standards-based APIs of the Cisco IOS® XE operating system, now included in the IR1101.

Use cases

Following are a few examples of use cases for the IR1101.

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

The IR1101 provides redundant WAN connectivity for increased reliability. And with intelligence at the edge, you can accelerate decision making for mission-critical applications such as public safety, so you can better regulate traffic flow and detect 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 costs.

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.

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	With two LTE modules (LTE and LTE-Advanced[1] with carrier aggregation), the IR1101 enables concurrent connectivity to two cellular networks for WAN redundancy, enhanced data throughputs, and reliability.
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

Discover more

To learn more about the Cisco IR1101 Integrated Services Router Rugged, visit: https://www.cisco.com/go/ir1101