



Overview

The Cisco 819 Integrated Services Router (ISR), designed in compact hardened and non-hardened models, is the smallest Cisco IOS Software router with support for integrated wireless WAN (WWAN) (mobile broadband backhaul) and wireless LAN (WLAN) capabilities. Fully integrated with Cisco IOS Software, the Cisco 819 delivers enterprise-class features, including highly secure data, voice, and video communications to stationary and mobile network nodes across wired and wireless links. The Cisco 819 extends corporate third- and fourth-generation (3G and 4G, respectively) WWAN network services to a wide variety of IP devices such as ATMs, kiosks, Global Positioning System (GPS) units, vending machines, digital signs, smart meters, vehicle fleets, and small remote branch offices.

Look What You Can Do with the Cisco 819 Integrated Services Router (ISR)

Your customers can retire quota faster by selling one of the top revenue generating IoT Products available today! The Cisco 819H is gaining momentum with a 38% growth Q/Q and significant deals won across all verticals including mining, manufacturing, transportation, utilities, and oil and gas.

You can offer your customers innovative portfolio of CISCO 819 M2M Integrated Services Routers (ISR)

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The 819H is now supported in the Connected Grid Network Management System (CG-NMS) and the upcoming Industrial Operations Kit. This provides you the opportunity to position Cisco's network management tools along with the router.

You can target the right customers in need of ruggedized and hardened wireless solutions to ensure secure transfer of critical information to:

- enterprise branch offices
- small businesses
- manufacturing plant floors
- mass transit
- mobile fleet
- oil and gas pipeline monitoring
- utility distribution automation solutions



What Is It?

The [819 ISR](#) extends your customer's corporate network to the micro branch for applications like automated teller machines (ATMs), kiosks, digital signage, or remote branches.

You can select the [right model for your customer](#).

The IPv6-Ready 819 ISR Gateway

Provides your customers a rapidly deployable, highly available, reliable, and secure solution designed specifically for machine-to-machine (M2M) applications. In addition, the Cisco 819 supports standards-based mobile IP and delivers comprehensive routing, switch, LAN, WAN, and network management.

The 819 ISR

Provides a wide-range of benefits across a variety of industries including oil and gas, manufacturing and industrial automation, transportation, energy and utilities, public safety, and finance. Addressing the business requirements of M2M applications, the Cisco 819 is a key component of an overall solution which:

- Improves operational productivity, safety and security in markets such as process control, industrial, mining, oil and gas
- Provides remote high-speed communications in mobile applications, improving effectiveness and productivity in transportation, fleet, and public safety markets
- Enables business and operational applications to facilitate intelligent decision making based on conditions of remote devices and end-points
- Wireless WAN and Wireless LAN functionality expands the reach of IP networks in harsh environments for improved communication
- Simplifies integration of corporate and operational networks for lower TCO and faster ROI
- Facilitates compliance with industry-specific regulations and requirements
- Enables new services which help businesses and organizations remain competitive

Where Can I Sell It?

The Cisco 819 Integrated Services Router (ISR) has the flexibility to support requirements from a large number of vertical markets including transportation, mobility, industrial automation, public safety, financial and health care.

It is a key component of our overall vertical solutions which bring together innovative products, validated and proven architectures, services, and support that will enable you to make a compelling offer to decision makers throughout these industries.

Cisco 819 ISR Applications in Action:



Transportation

- Track and monitor vehicles using GPS and mobile broadband
- Enable on-board passenger Wi-Fi
- Increase safety of railways, roads, airports, stations and ports
- Improve management and efficiency of commercial fleets
- Provide faster response times of emergency vehicles
- Withstands the shock and vibration found in transportation



Industrial Automation and Manufacturing

- Remote monitoring and automated supply-chain management increases efficiency
- Connect systems on the plant floor with the enterprise to converge Operational Technologies (OT) with traditional IT systems
- Built for industrial environments and harsh conditions



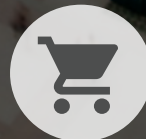
Energy and Utilities

- Remotely monitor equipment, read smart meters and track usage to improve energy efficiency
- Cut costs for utility companies and improve customer service



Financial

- Increase security at outdoor ATMs and kiosks
- Real-time tracking of ATM levels optimizes restocking schedules
- Lower downtime, provides better customer service and saves banks money by eliminating wasted trips



Retail

- Quickly deploy retail branches with no wired infrastructure
- Communicate with inventory management systems

Conversation Starters

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Do you need visibility into every aspect of your operation to help you lower the total cost of operations and make your systems more secure?

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Are you looking for products that can be deployed in compact spaces to solve critical size, weight and power challenges?

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Do you need products that provide a higher port density, a wider temperature range and simplified installation?

?

Are you looking for an industrial solution that provides a rugged, easy-to-use, secure infrastructure for harsh environments?

You Can Solve Customers' Needs

Oil and Gas



The Challenge



The Solution



The Results

○ The Challenge

Pipeline Operations

- The company was spending a significant portion of its capex on expanding a pipeline to provide incremental capacity to transport up to approximately 70,000–90,000 barrels per day (bpd) of crude petroleum from various locations.
- They were seeking a technology solution that would provide reliable access to sites that traditional VSAT (satellite) failed to offer.

○ The Solution

- The 819 (LTE) proved to be an ideal solution both financially and as a reliable transport.
- A major selling advantage was the operational temperature ratings for field survivability in extreme hot & cold conditions.

○ The Results

Retail Operations

- They also selected the 819 (LTE) for their retail outlets due to less costly alternative to traditional PSTN circuits.

You Can Solve Customers' Needs

Sustainability



The Challenge



The Solution



The Results

○ The Challenge

People and Asset Tracking

- The company is looking to utilize the infrastructure they've put in place to track people and assets throughout their site.
- Previously, contractors would be transported to site via buses, depart the buses and line up at the main gate to pass through security. It is estimated that each person arriving onsite each day waited in the security line for up to 5 minutes.

○ The Solution

- Now, contractors scan their identification badges as they enter transport to the site.
- The bus and its badge reader are connected to the wireless infrastructure through a Cisco 819 Integrated Services Router which can then notify security who is arriving onsite that day.

○ The Results

- With 2,000 people arriving onsite every day, those 5 minutes per day or 30 hours over the year can add up to \$7M worth of lost employee productivity in a year.
- By enabling this simple task to take place on the bus, the cost savings are immediate.

You Can Solve Customers' Needs

Transportation



○ The Challenge

- The original scope of the project was to enable automated vehicle location tracking (AVL) and passenger counting.

○ The Solution

- By enabling these services using the Cisco 819 Integrated Services Router, not only can BC Transit accomplish AVL and passenger counting, they can now also access vehicle telemetry and onboard diagnostics including fuel data, engine temperature and health.

○ The Results

- With the Cisco 819 Integrated Services Router, the vehicles are able to stay connected to the Operations Centre using 3G, 4G while on-route and then connect to the Wifi network when they arrive at the main depot at the end of the day.

Case Studies



Sierra Gorda - Chile

Delivering Enterprise-Level Connectivity in Remote Desert

Oprea - Bosnia and Herzegovina

National Newsagent Catapults Supply Chain into 21st Century

City of Barcelona - Spain

“Connected City” Improves Quality of Life, Stimulates Economy

Where Can I Find More Information?

Cisco.com

- [Cisco 819 Integrated Services Router](#)

Videos

- **Video Data Sheet**
[Watch Video](#) to see how the ISR 819 adapts to different machine-to-machine (M2M) applications. (4:49 min)
- **A Pretty Tough Router**
How durable is Cisco 819 Integrated Services Router?
[Watch Video](#) to see for yourself. (1:02 min)
- **Cisco CleanAir Overview**
[Watch Video](#) to see how CleanAir automatically detects, classifies, and mitigates RF interference. (2:02 min)