

# Cisco Integrated Services Router 819

## Machine-to-Machine Gateway



The Cisco ISR 819 Machine-to-Machine (M2M) Gateway, part of the Cisco Integrated Services Routers Generation 2 (ISR G2) portfolio, is the smallest Cisco IOS® Software router with support for integrated third- and fourth-generation (3G and 4G, respectively) wireless WAN, and they come in compact hardened and nonhardened form factors. The Cisco ISR 819 extends corporate 3G and 4G wireless WAN network services to billions of nontraditional IP devices such as ATMs, kiosks, vending machines, digital signage, or small remote branch offices, as well as to stationary and mobile network nodes across wired and wireless links.

The Cisco ISR 819 is part of the Cisco 800 Series next-generation fixed configuration ISRs that provide collaborative business solutions for secure data communication to enterprise branch offices, small businesses, and teleworkers (Figure 1).

Figure 1. Cisco Integrated Services Routers Generation 2 Family



### What Does the Cisco ISR 819 offer?

The Cisco ISR 819s provide a rapidly deployable, highly available, and secure solution for machine-to-machine applications. They are IPv6-ready, supports standards-based Mobile IP, and they deliver comprehensive routing, switch, LAN, WAN, and network management.

Business benefits across industries:

- **Financial:** Increases flexibility and security for outdoor ATMs and kiosks, with wireless backhaul and video surveillance
- **Utility:** Helps improve energy efficiency by remotely monitoring equipment, reading meters, and tracking usage
- **Retail:** Quickly deploys retail branch offices in emerging and rural markets with no wired infrastructure

- **Industrial automation:** Increases efficiency with remote monitoring and automated supply-chain management; for example, vending machines
- **Transportation:** Works with Global Positioning System (GPS) and high-speed mobile broadband technology to track and monitor vehicles; cut costs; and improve functions and safety for fleet management services

Figure 2. Cisco Integrated Services Router 819(H)G



### Why Cisco and Why Machine-to-Machine?

From the micro-site to the branch office, to the WAN and campus backbone, Cisco end-to-end, highly reliable network solutions form the most comprehensive line of networking products available in the industry. As a critical component of the Cisco Machine-to-Machine Architecture, the Cisco ISR 819 serves as the single, horizontal platform that can be used across the entire machine-to-machine market to enhance Cisco's vision of "any device, anywhere, any place" across all industries, including banking, retail, healthcare, manufacturing, government, etc. It also provides the ability to extend Cisco product-based networks to small branch offices with a relatively low incremental investment, as well as enable managed services based on Cisco architectural offerings.