Cisco 5921 Embedded Services Router

The Cisco 5921 Embedded Services Router (ESR) is a Cisco IOS® software router application designed to operate on small, low power Linux-based platforms to extend the use of Cisco IOS into extremely mobile and portable communications systems. The Cisco® 5921 ESR is optimized for mobile and embedded networks that require IP routing and services. The flexible Cisco 5921 routers, based on Cisco IOS® Software and complemented by Cisco Mobile Ready Net capabilities, provide highly secure data, voice, and video communications to stationary and mobile network nodes across wired and wireless links.

Why Deploy the Cisco 5921 ESR

The Cisco 5921 ESR meets the critical need for on-demand network connectivity for industrial, commercial, military, homeland-security, and emergency-response applications. It is a versatile network platform that delivers:

- High performance
- Usability in small, flexible form factors
- Portability
- Integration of sophisticated networking capabilities such as quality of service (QoS) to ensure the most important data gets through when links are degraded
- Security to protect the network and data
- Remote voice services with Cisco Unified Communications Manager Express (CME) Streaming multicast video

How You Can Benefit with the Cisco 5921 ESR

- The Cisco 5921 ESR can be combined with system-specific applications onto a single hardware platform to provide extremely small, low power solutions
- The Cisco 5921 ESR complements the Cisco 5915 and 5940 ESR hardware routers providing integrators with a cost effective solution for addressing smaller, extremely integrated applications. The Cisco 5921 ESR is ideal for low power systems such as portable, battery-powered devices
- High performance and the rich Cisco IOS Software feature set of the Cisco 5921 ESR provides investment protection and enable integrators to leverage future capabilities without having to replace hardware
- Protects against malicious attacks and unauthorized access with advanced security technologies such as authentication, identity management, security protocols, secure connectivity, and integrated threat management

- The Cisco 5921 ESR's network optimization capabilities enable the development of security-protected vehicles, sensors, and other devices deployed in self-forming, self-healing infrastructure-less networks. It provides immediate connection with no pre-configuration of peers required; eliminates the need for connectivity to centralized networks; and enables users to reach beyond the range of a fixed network

Advantages and Benefits for Developers and Integrators

The Cisco 5921 ESR-based solutions can be tailored by developers and integrators to provide remote and mobile connectivity for a wide range of users, securely extending enterprise network resources to heavy industrial, public safety, transportation, and defense markets.

The software-based Cisco 5921 ESR doesn't restrict the product developer to a specific form factor, which enables integrators the flexibility to design hardware that will meet unique market requirements.

The Cisco 5921 Embedded Service Router can be deployed in mission-critical mobile communications to take advantage of Cisco Mobile Ready Net capabilities that provide:

- Transparent access of mission-critical voice, video, or data information
- Infrastructure-less networking: Reaching beyond the range of a fixed network
- Radio-aware routing: immediately recognizes and reacts to changes in neighbor status
- Self-forming networks: Immediate connection with no preconfiguration of peers required, eliminating the need for connectivity to the centralized network

Why Cisco?

The Cisco 5921 ESR enables developers and integrators to integrate proven, industry-leading Cisco IOS Software into a wide range of devices — enabling the delivery of consistent end-to-end solutions today and positioning their platforms to take advantage of Cisco's extensive annual research and development (R&D) investment for development of new capabilities in the future.

The Cisco 5921 ESR is part of Cisco's Internet of Things portfolio, and is designed to create a secure, simple, and reliable Internet of Things-capable network. It enables connections to devices, applications and people in a way that minimizes disruption while at the same time adding value to each connected service.