

Refurbished CISCO C1921-4G-V-SEC-K9 Datasheet

CISCO > ROUTERS

Cisco 1900 Series Integrated Services Routers

Key Features and Benefits of the Cisco 1921 Integrated Services Router

Benefits	
Service integration	The Cisco 1921 offers increased levels of services integration with data, security, wireless, and mobility services, enabling greater efficiencies and cost savings.
Services on demand	A single Cisco IOS Software Universal image is installed on each ISR G2. The Universal image contains all of the Cisco IOS Software technology sets that can be activated with a software license, allowing your business to quickly deploy advanced features without downloading a new Cisco IOS Software image. Additionally, larger default memory is included to support the new capabilities.
High performance with integrated services	The Cisco 1900 Series enables deployment in high-speed WAN environments with concurrent services enabled up to 15 Mbps.
Network agility	Designed to address customer business requirements, the Cisco 1921 with the modular architecture offers a performance range of modular interfaces and services as your network needs grow. Modular interfaces offer increased bandwidth, a diversity of connection options, and network resiliency.
Energy efficiency	The Cisco 1921 architecture provides energy-savings features that include the following: The Cisco 1900 Series offers intelligent power management and allows you to control power to the modules based on the time of day. Cisco EnergyWise technology will be supported in the future. Services integration and modularity on a single platform performing multiple functions optimizes raw-materials consumption and energy usage. Platform flexibility and ongoing development of both hardware and software capabilities lead to a longer product lifecycle, lowering all aspects of the TCO, including materials and energy use. High-efficiency power supplies are provided with each platform. DC Power option available (CISCO1921DC/K9).
Investment protection	The Cisco 1921 maximizes investment protection: Reuse of a broad array of existing modules supported on the original ISRs provides a lower TCO. A rich set of Cisco IOS Software features is carried forward from the original ISRs and delivered in the Universal image. This router gives you the flexibility to grow as your business needs evolve.

Architectural Features and Benefits

Architectural Feature	Benefits
Modular platform	The Cisco 1921 ISRs are highly modular platforms with multiple module slots to provide connectivity and services for varied branch-office network requirements. The ISRs offer an industry-leading breadth of LAN and WAN connectivity options through modules to accommodate field upgrades to future technologies without requiring replacement of the platform.
Processors	The Cisco 1921 is powered by high-performance multicore processors that support growing demands of branch-office networks by supporting high-throughput WAN requirements.
Embedded IP Security/Secure Sockets Layer (IPsec/SSL) VPN hardware acceleration	Embedded hardware encryption acceleration is enhanced to provide higher scalability, which, combined with an optional Cisco IOS Security license, enables WAN link security and VPN services (both IPsec and SSL acceleration). The onboard encryption hardware outperforms the Advanced Integration Modules (AIMs) of previous generations.
Integrated Gigabit Ethernet ports	All onboard LAN and WAN ports are 10/100/1000 Gigabit Ethernet routed ports.
Innovative Universal-Serial-Bus (USB)-based console access	A new, innovative, mini-Type B USB console port supports management connectivity when traditional serial ports are not available. The traditional console and auxiliary ports are also available. You can use either the USB-based console or the RJ-45-based console port to configure the router.
Optional external power supply for distribution of PoE	An optional upgrade to the power supply provides inline power (802.3af-compliant PoE) and Cisco Standard Inline Power to optional integrated switch modules.

Modularity Features and Benefits

Feature	Benefits
Cisco Enhanced High-Speed WAN Interface Card (EHWIC)	The EHWIC slot replaces the high-speed WAN Interface Card (HWIC) slot and can natively support HWICs, WAN Interface Cards (WICs), and voice/WAN Interface Cards (VWICs). Two integrated EHWIC slots are available on the Cisco 1921 for flexible configurations for support of two modules: One doublewide HWIC-D or two singlewide EHWIC/HWIC modules are supported. Each EHWIC slot offers high-data-throughput capability.
USB 2.0 ports	One high-speed USB 2.0 port is supported. The USB port enables another mechanism for secure-token capabilities and storage.

Cisco 1921 with Cisco IOS Software Feature and Protocol High-Level Support

Protocols	IPv4, IPv6, static routes, Open Shortest Path First (OSPF), Enhanced IGRP (EIGRP), Border Gateway Protocol (BGP), BGP Router Reflector, Intermediate System-to-Intermediate System (IS-IS), Multicast Internet Group Management Protocol (IGMPv3) Protocol Independent Multicast Sparse Mode (PIM SM), PIM Source-Specific Multicast (SSM), Distance Vector Multicast Routing Protocol (DVMRP), IPsec, generic routing encapsulation (GRE), Bidirectional Forwarding Detection (BFD), IPv4-to-IPv6 Multicast, MPLS, Layer 2 Tunneling Protocol Version 3 (L2TPv3), 802.1ag, 802.3ah, and Layer 2 and Layer 3 VPN.
Encapsulations	Ethernet, 802.1q VLAN, Point-to-Point Protocol (PPP), Multilink Point-to-Point Protocol (MLPPP), Frame Relay, Multilink Frame Relay (MLFR) (FR.15 and FR.16), High-Level Data Link Control (HDLC), Serial (RS-232, RS-449, X.21, V.35, and EIA-530), Point-to-Point Protocol over Ethernet (PPPoE), and ATM.
Traffic management	QoS, Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Hierarchical QoS, Policy-Based Routing (PBR), Performance Routing (PfR), and Network-Based Application Recognition (NBAR).

Cisco IOS Software Management Capabilities

Feature	Description of Feature Supported by Cisco Integrated Services Routers
WSMA	The Web Services Management Agent (WSMA) defines a mechanism through which you can manage a network device, retrieve configuration data information, and upload and manipulate new configuration data. WSMA uses XML-based data encoding that is transported by the Simple Object Access Protocol (SOAP) for the configuration data and protocol messages.
EEM	Cisco IOS EEM is a distributed and customized approach to event detection and recovery offered directly in a Cisco IOS Software device. It offers the ability to monitor events and take informational, corrective, or any desired EEM action when the monitored events occur or when a threshold is reached.
IPSLA	Cisco IOS IP SLAs enable you to assure new business-critical IP applications, as well as IP services that use data, voice, and video, in an IP network.
SNMP, RMON, syslog, NetFlow, and TR-069	Cisco 1900 Series ISRs support SNMP, Remote Monitoring (RMON), syslog, NetFlow, and TR-069 in addition to the embedded management features previously mentioned.

Product Specifications of Cisco 1921 Integrated Services Router

Services and Slot Density

Embedded hardware-based cryptography acceleration (IPsec + SSL)	Yes
RJ-45 onboard LAN/WAN 10/100/1000 ports	2
EHWIC slots	2
Doublewide EHWIC slots (use of a doublewide EHWIC slot will consume 2 EHWIC slots)	1
Cisco Integrated Services Module (ISM) slots	0
Memory (DDR2 DRAM): Default/maximum	512 MB/512 MB

USB flash memory (internal): Default/maximum	256 MB/256 MB
External USB flash-memory slots (Type A)	1
USB console port (mini-Type B) (up to 115.2 kbps)	1
Serial console port (up to 115.2 kbps)	1
Serial auxiliary port (up to 115.2 kbps)	1
Integrated power supply	AC and DC power-supply models
Power-supply options	POE (external) - on AC models only
Power Specifications	
AC input voltage	100-240V ~
AC input frequency	47-63 Hz
AC input current range AC power supply (maximum) (amps)	1.5-0.6
AC input surge current	50A
Typical power (no modules)	25W
Maximum power capacity with AC power supply	60W
Maximum power capacity with PoE power supply (platform only)	70W
Maximum PoE device power capacity with PoE power supply	80W
DC power input	32-60 VDC, 4A, positive or negative, single source
DC input wire size	AWG 14 (2.0 mm ²)
Safety ground-wire size	AWG 14 (2.0 mm ²), minimum
Wire terminal (lug)	Amp/Tyco No.32957
Physical Specifications	
Dimensions (H x W x D)	1.75 x 13.5 x 11.5 in. (4.45 x 34.29 x 29.21 cm)
Rack height	1 rack unit (1RU)
Rack-mount 19 in. (48.3 cm) EIA	Optional
Wall-mount (refer to installation guide for approved orientation)	Yes
Weight: With AC power supply (no modules)	6.75 lb
Weight: With PoE power supply (no modules)	7.5 lb
Operating Conditions	
Temperature: 5906 ft (1800m) maximum altitude	32-104°F (0-40°C)
Temperature: 9843 ft (3000m) maximum altitude	32-77°F (0-25°C)
Altitude	10,000 ft (3,000m)
Humidity	10 to 85% relative humidity (RH)
Acoustic: Sound pressure (typical/maximum)	32.99/58.33 dBA
Transportation and Storage Conditions	
Temperature	-40 to 158°F (-40 to 70°C)

Humidity	5 to 95% RH
Regulatory Compliance	
Safety	UL 60950-1 CAN/CSA C22.2 No. 60950-1 EN 60950-1 AS/NZS 60950-1 IEC 60950-1
EMC	47 CFR, Part 15 ICES-003 Class A EN55022 Class A CISPR22 Class A AS/NZS 3548 Class A VCCI V-3 EN 300-386 EN 61000 (Immunity) EN 55024, CISPR 24 EN50082-1
Telecom	TIA/EIA/IS-968 CS-03 ANSI T1.101 IEEE 802.3 RTTE Directive

The next steps...

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