

Refurbished CISCO CISCO1941W-N-K9 Datasheet

CISCO > ROUTERS

Cisco 1900 Series Integrated Services Routers

Key Features and Benefits of the Cisco 1941 Integrated Services Router Series

Service Integration	The Cisco 1941 Series offer increased levels of services integration with data, security, wireless, and mobility services enabling greater efficiencies 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 technology sets which can be activated with a software license. This allows your business to quickly deploy advanced features without downloading a new IOS image. Additionally, larger default memory is included to support the new capabilities. The Cisco Services Ready Engine (SRE) enables a new operational model which allows you to reduce capital expenditures (CapEx) and deploy a variety of application services as needed on a single integrated compute services module.
High Performance with Integrated Services	The Cisco 1900 Series enables deployment in high speed WAN environments with concurrent services enabled up to 25 Mbps. Multi-Gigabit Fabric enables high bandwidth module to module communication without compromising routing performance.
Network Agility	Designed to address customer business requirements, Cisco 1941 Series with the modular architecture, offers 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 1941 Series architecture provides energy savings features that include the following: The Cisco 1900 Series offers intelligent power management and allows the customer 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 total cost of ownership, including materials and energy use. High efficiency power supplies are provided with each platform.
Investment Protection	The Cisco 1941 Series maximizes investment protection by supporting: Reuse of a broad array of existing modules supported on the original Integrated Services Routers provides a lower cost of ownership. Rich set of Cisco IOS Software features carried forward from the original Integrated Services Routers and delivered in the universal image. Flexibility to grow as your business needs evolve.

Architectural Features and Benefits

Architectural Feature	
Architectural Feature	Benefits
Modular Platform	The Cisco 1941 Series ISR are highly modular platforms with multiple module slots to provide connectivity and services for varied branch 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 1941 Series is powered by high-performance multi-core processors that support growing demands of branch office networks by supporting high throughput WAN requirements.
MultiGigabit Fabric	The Cisco 1941 introduces an innovative MultiGigabit Fabric (MGF) which allows for efficient module to module communication, enabling direct services interactions across modules while reducing the overhead on the router processor.
Embedded IPSec 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 (IPSec acceleration).

	The onboard encryption hardware out-performs the Advanced Integration Modules of previous generations.
Integrated Gigabit Ethernet Ports	All onboard WAN ports are 10/100/1000 Gigabit Ethernet WAN routed ports.
Innovative universal-serial-bus (USB)-based console access	A new, innovative, mini-B USB console port supports management connectivity when traditional serial ports are not available. The traditional console and auxiliary ports are also available. Either the USB-based console or the RJ-45-based console port can be used to configure the router.
Optional Integrated Power Supply for Distribution of Power Over Ethernet (PoE)	An optional upgrade to the internal power supply provides in-line power (802.3af-compliant Power-over-Ethernet [PoE] and Cisco standard inline power) to optional integrated switch modules.
Integrated Wireless LAN	The Cisco 1941 offers a secure integrated access point in a single device. Integrated access point is based on the IEEE 802.11n draft 2.0 standard that uses MIMO (Multi-Input, Multiple-output) to improve coverage for existing 802.11a/b/g clients and new 802.11n clients. The Cisco 1941 supports dual radios - 802.11 b/g/n and 802.11a/n and is capable of operating in both autonomous and unified modes.

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), wireless WAN 3G/4G LTE, voice interface cards (VICs), and voice/WAN interface cards (VWICs). Two integrated EHWIC slots are available on the Cisco 1941 for flexible configurations for support of two modules: One double wide HWIC-D or single wide EHWIC/HWIC module and a second single wide E-HIC/HWIC module are supported. Each HWIC Slot offers high data throughput capability. Up to 1.6 Gbps aggregate towards the router processor. Up to 2 Gbps aggregate to other module slots over MultiGigabit Fabric (MGF).
Cisco Internal Services Module (ISM)	A single ISM Slot provides flexibility to integrate intelligent services modules that do not require interface ports. ISM replaces the Advanced Integration Module (AIM) slot; existing AIM modules are not supported in the ISM slot. Each ISM Slot offers high data throughput capability. Up to 4 Gbps aggregate towards the router processor. Up to 2 Gbps aggregate to other module slots over MultiGigabit Fabric (MGF). Power to ISM slots can be managed by extensions similar to the Cisco EnergyWise framework, allowing organizations to reduce energy consumption in their network infrastructure. Full EnergyWise support will be available in future software releases. Note: The Cisco 1941 cannot have ISM and WLAN on the same chassis. Please refer to ordering information for WLAN SKUs.
Compact Flash Slots	Two external Compact Flash slots are available on the Cisco 1941. Each slot can support high-speed storage densities upgradeable to 4GB in density.
USB 2.0 Ports	Two high-speed USB 2.0 ports are supported. The USB ports enable another mechanism secure token capabilities and storage.

Cisco 1941 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), Bi-Directional Forwarding Detection (BFD), IPv4-to-IPv6 Multicast, MPLS, L2TPv3, 802.1ag, 802.3ah, L2 and L3 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 Advanced Routing (NBAR).

Cisco IOS Software Management Capabilities

Feature	Description of Feature Supported by Cisco Integrated Services Routers
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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 Embedded Event Manager (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 Service-Level Agreements (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, TR-069	Cisco 1900 Series Integrated Services Routers also support SNMP, Remote Monitoring (RMON), syslog, NetFlow, and TR-069 in addition to the embedded management features previously mentioned.

Product Specifications of Cisco 1941 Integrated Services Router

Services and Slot Density

Embedded hardware-based crypto acceleration (IPSec)	Yes
Total Onboard Gigabit Ethernet 10/100/1000 WAN ports	2
RJ-45-Based Ports	2
SFP-Based Ports	0
SM Slots	0
Double-Wide SM Slots	0
EHWIC Slots	2
Double-wide EHWIC slots (use of a double-wide EHWIC slot will consume two EHWIC slots)	1
ISM Slots	1 (0 on the Cisco 1941W)
Memory (DDR2 Error Correction Code [ECC] ECC DRAM) - Default	512 MB
Memory (DDR2 ECC DRAM) - Maximum	2.0 GB
Compact Flash (external) - Default	slot 0: 256 MB slot 1: none
Compact Flash (external) - Maximum	slot 0: 4 GB slot 1: 4 GB
External USB flash memory slots (Type A)	2
USB Console Port (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
Power Supply Options	AC, POE

Power Specifications

AC Input Voltage	100-240 V ~
AC Input Frequency	47-63 Hz
AC Input Current range AC Power Supply (Max) (Amps)	1.5-0.6
AC Input Surge Current	50 A
Typical Power (No Modules)	35 W
Maximum Power capacity with AC	110 W

power supply	
Maximum Power capacity with PoE power supply (platform only)	110 W
Physical Specifications	
Dimensions (H x W x D)	3.5 in x 13.5 in x 11.5 in
Rack Height	2 RU
Rack-mount 19in. (48.3 cm) EIA	Included
Wall-mount (refer to installation guide for approved orientation)	Yes
Weight - with AC power supply (no modules)	12 lbs
Weight - with POE power supply (no modules)	12.8 lbs
Maximum Weight - Fully Configured	14 lbs
Operating Condition	
Temperature - 5906 feet (1800 m) max. altitude	0-40°C (32-104°F)
Temperature - 9843 feet (3000 m) max. altitude	0-25°C (32-77°F)
Altitude	3000 m (10000 ft)
Humidity	10 to 85% RH
Acoustic: Sound Pressure (Typ/Max)	26/46 dBA
Transporation/Storage Condition	
Temperature	-40-70°C (-40-158°F)
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 CNS 13438 EN 300-386 EN 61000 (Immunity) EN 55024, CISPR 24 EN50082-1
Regulatory Compliance	47 CFR, Part 15 ICES-003 Class A EN55022 Class A CISPR22 Class A AS/NZS 3548 Class A VCCI V-3 CNS 13438 EN 300-386 EN 61000 (Immunity) EN 55024, CISPR 24 EN50082-1
Telecom	TIA/EIA/IS-968 CS-03 ANSI T1.101 ITU-T G.823, G.824 IEEE 802.3 RTTE Directive

WLAN Specifications of the Cisco 1941W

Feature	
WLAN hardware	IEEE 802.11n draft 2.0 standards-based access point with 802.11a/b/g compatibility

	Automatic rate selection for 802.11g/n Dual Radios for 802.11b/g/n and 802.11a/n modes RP-TNC connectors for field-replaceable external antennas 2-dBi default antenna gain 2 x 3 multiple input, multiple output (MIMO) radio operation Wi-Fi 802.11n Draft v2.0 certified
WLAN software features	Autonomous or unified access point Cisco WCS support for monitoring of autonomous-mode access points Option to maximize throughput or maximize range Software-configurable transmit power Radio roles, including access point, root bridge, non-root bridge, and workgroup bridge Wi-Fi Multimedia (WMM) certification Traffic specifications (TSPEC) Call Admission Control (CAC) to ensure voice quality is maintained Unscheduled Automatic Power Save Delivery (UPSD) to reduce latency
Unified WLAN management	Unified access point features Supported by wireless LAN controller and Cisco WCS Configurable local or central switching for HREAP mode Radio management through Cisco WCS Transparent roaming with mobility groups
WLAN security features	Standard 802.11i Wi-Fi Protected Access (WPA) and AES (WPA2) EAP authentication: Cisco LEAP, PEAP, Extensible Authentication Protocol Transport Layer Security (EAP-TLS), Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST), Extensible Authentication Protocol-Subscriber Information Module (EAP-SIM), Extensible Authentication Protocol-Message Digest Algorithm 5 (EAP-MD5), and Extensible Authentication Protocol-Tunneled TLS (EAP-TTLS) Static and dynamic Wired Equivalent Privacy (WEP) Temporal Key Integrity Protocol/Simple Security Network (TKIP/SSN) encryption MAC authentication and filter User database for survivable local authentication using LEAP and EAP-FAST Configurable limit to the number of wireless clients Configurable RADIUS accounting for wireless clients Pre-Shared Keys (PSKs) (WPA-small office or home office [WPA-SHO])
Service Set Identifiers (SSIDs)	16
Wireless VLANs	16
Encrypted wireless VLANs	16
Multiple Broadcast Service Set Identifiers (MBSSIDs)	16

The next steps...

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