

ISR4221/K9 Datasheet

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Overview

Cisco 4221 Integrated Services router is design to deliver advanced services to the small enterprise branch environment. It delivers 35Mbps throughput by default. With pay-as-you-grow performance, you can increase forwarding capacity to 75Mbps by buying licenses.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	Cisco ISR4221/K9
Aggregate Throughput	35 Mbps to 75 Mbps
Total onboard WAN or LAN 10/100/1000 ports	2
RJ-45-based ports	2
SFP-based ports	1
NIM (Network Interface Modules) slots	2
Onboard ISC slot	No
Default memory double-data-rate 3 (DDR3) error-correction-code (ECC) DRAM (Combined control/services/data planes)	4 GB
Flash Memory	8 GB
Power-supply options	External AC only
Rack height	1 RU
Dimensions (H x W x D)	1.72 x 12.7 x 10 in (43.7 x 322.6 x 254 mm)
Weight with AC PS (no modules)	7.1 lb (3.22 kg)

Product Details

Figure 1 shows the LEDs on the front panel of the Cisco ISR4221/K9.



•There are 4 LEDs on the front panel.

Figure 2 shows the back panel of Cisco ISR4221/K9.



Note:

(1)	GE 0/0/0 RJ-45 (copper cable) port	(5)	Console port
(2)	Power switch	(6)	GE 0/0/1 (copper cable) port
(3)	Power input connector	(7)	GE 0/0/0 SFP (fiber-optic) port
(4)	GE "MGMT" port (with USB port below)	(8)	NIM slots

The Modules & Cards

Table 2 shows some recommended modules and cards.

Items	Models	Description
Console and Auxillary Cables	CAB-CONSOLE-RJ45	Cisco CAB-CONSOLE-RJ45 Console Cable 6ft with RJ45 and DB9F
Network Interface Modules	NIM-1MFT-T1/E1	Cisco Fourth-Generation Multiflex Trunk Voice and WAN network interface module
	NIM-ES2-4	Cisco 4000 Series Integrated Services Router 4-Port Gigabit Ethernet Switch Module layer 2
	NIM-ES2-8	Cisco 4000 Series Integrated Services Router 8-Port Gigabit Ethernet Switch Module NIM
SFPs for On-Board GE Ports	GLC-LH-SMD	Cisco GLC-LH-SMD 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM
	GLC-ZX-SMD	Cisco GLC-ZX-SMD 1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM
	GLC-SX-MMD	Cisco GLC-SX-MMD 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM

Compare to Similar Items

Table 3 shows the comparison.

Technical Specifications	ISR4461/K9	ISR4451-X/K9	ISR4431/K9	ISR4351/K9	ISR4331/K9	ISR4321/K9	ISR4221/K9
Aggregate Throughput	1.5Gbps	1 Gbps to 2 Gbps	500 Mbps to 1 Gbps	200 Mbps to 400 Mbps	100 Mbps to 300 Mbps	50 Mbps to 100 Mbps	35 Mbps to 75 Mbps
Total onboard WAN or LAN 10/100/1000 ports	4	4	4	3	3	2	2
RJ-45-based ports	4	4	4	3	2	2	2

SFP-based ports	4	4	4	3	2	1	1
Enhanced service-module slots	3	2	0	2	1	0	0
Doublewide service-module slots	2	1 (assumes no singlewide SM-X modules installed)	0	1 (assumes no singlewide SM-X modules installed)	0	0	0
NIM slots	3	3	3	3	2	2	2
OIR (all I/O modules)	Yes	Yes	Yes	Yes	Yes	Yes	No
Onboard ISC slot	1	1	1	1	1	1	No

Get more information

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Specification

Cisco ISR4221/K9 Specification	
Aggregate Throughput	35 Mbps to 75 Mbps
Total onboard WAN or LAN 10/100/1000 ports	2
RJ-45-based ports	2
SFP-based ports	1
Enhanced service-module slots	0
Doublewide service-module slots	0
NIM slots	2
OIR (all I/O modules)	No
Onboard ISC slot	No
Default memory double-data-rate 3 (DDR3) error-correction-code (ECC) DRAM (Combined control/services/data planes)	4 GB
Maximum memory DDR3 ECC DRAM (Combined control/services/data planes)	4 GB
Default memory DDR3 ECC DRAM (data plane)	NA
Maximum memory DDR3 ECC DRAM (data plane)	NA
Default memory DDR3 ECC DRAM (control/services plane)	NA
Maximum memory DDR3 ECC DRAM (control/services plane)	NA
Default flash memory	8 GB
Maximum flash memory	8 GB
External USB 2.0 slots (type A)	1

USB console port -type B mini (up to 115.2 kbps)	0
Serial console port - RJ45 (up to 115.2 kbps)	1 (combo CON/AUX port)
Serial auxiliary port - RJ45 (up to 115.2 kbps)	1 (combo CON/AUX port)
Power-supply options	External: AC Only
Redundant power supply	N/A
AC input voltage	100 to 240 VAC autoranging
AC input frequency	47 to 63 Hz
AC input current range, AC power supply (maximum)	1.5 to 0.6A
AC input surge current	90 A peak and less than 3 Arms per half cycle
Typical power (no modules) (watts)	24
Maximum power with AC power supply (watts)	90
Maximum power with PoE power supply (platform only) (watts)	NA (no PoE support)
Maximum endpoint PoE power available from PoE power supply (watts)	NA (no PoE support)

Download Resource

Support and Resources

-  [Cisco 4000 Series Integrated Services Routers Configuration Guide](#)
-  [Cisco ISR 4000 Series Router Datasheet](#)
-  [Comparison of Cisco ISR 4000 Models](#)
-  [Cisco 4000 Series Integrated Services Routers Frequency Asked Question](#)

Transition Guide

-  [Guide to Select New Cisco Routers](#)
-  [Guide to Upgrade Your ISR G1 and ISR G2 Routers to ISR 4000](#)

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