

Cisco ISR4431/K9

Cisco ISR 4431 Integrated Services Router User Manual

Model: ISR4431/K9

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the Cisco ISR 4431 Integrated Services Router. The Cisco 4000 family of Integrated Services Routers (ISR) is designed to enhance WAN communications in enterprise branch environments. It offers advanced network capabilities and convergence to support application-aware networking in distributed enterprise sites, facilitating communication with private data centers and public clouds across various link types, including Multiprotocol Label Switching (MPLS) VPNs and the Internet.

2. SAFETY INFORMATION

Always observe standard safety precautions when working with electrical equipment. Ensure proper grounding and ventilation. Do not operate the device in wet or excessively dusty environments. Refer to local electrical codes for installation requirements.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Cisco ISR 4431 Router
- Rack mounting kit
- Power cord (country-specific)
- Documentation (this manual, safety information)

4. SETUP AND INSTALLATION

4.1 Physical Installation

The Cisco ISR 4431 is designed for rack-mounting. Follow these steps for secure installation:

1. **Prepare the Rack:** Ensure the rack is stable and has adequate space and ventilation for the router.
2. **Attach Mounting Brackets:** Use the provided rack mounting kit to attach the brackets to the sides of the router.
3. **Mount the Router:** Carefully slide the router into the rack and secure it with the appropriate screws.

4. **Ensure Airflow:** Maintain proper clearance around the router for optimal cooling.



Figure 1: Front view of the Cisco ISR 4431 Router, showing ports and ventilation. This image illustrates the physical appearance of the device, including its black chassis and rack-mountable design.

4.2 Connecting the Router

After physical installation, connect the necessary cables:

- **Power Connection:** Connect the power cord to the router's power input and then to a grounded electrical outlet.
- **Network Connections:** Connect WAN and LAN cables to the appropriate Ethernet ports.
- **USB Ports:** The router features two USB 2.0 ports for connecting compatible devices or storage.
- **Console Port:** For initial configuration, connect a console cable to a management workstation.

4.3 Initial Power On

Once all connections are secure, power on the router. Observe the system LEDs for boot-up status. The router will load its operating system, Cisco IOS IP Base.

5. OPERATION AND CONFIGURATION

The Cisco ISR 4431 operates on Cisco IOS IP Base. Configuration is typically performed via the command-line interface (CLI) accessed through the console port or remotely via SSH/Telnet after initial setup.

5.1 Basic Configuration Steps

1. **Access the CLI:** Connect to the router via console or network.
2. **Initial Setup Wizard:** Follow the prompts for basic network settings, hostname, and passwords.
3. **Interface Configuration:** Configure IP addresses, subnet masks, and other parameters for WAN and LAN interfaces.
4. **Routing Protocols:** Implement necessary routing protocols (e.g., OSPF, EIGRP, BGP) for network communication.
5. **Security Settings:** Configure access control lists (ACLs), firewall rules, and VPNs as required for secure operations.

For detailed configuration commands and advanced features, refer to the official Cisco IOS documentation available on the Cisco website.

6. MAINTENANCE

6.1 Firmware Updates

Regularly check the Cisco support website for the latest firmware (Cisco IOS) updates. Applying updates can improve performance, add new features, and address security vulnerabilities. Follow Cisco's recommended procedures for firmware upgrades to avoid service interruptions.

6.2 Cleaning

Keep the router free from dust and debris. Use a soft, dry cloth for external cleaning. Ensure ventilation openings are clear to prevent overheating. Do not use liquid cleaners directly on the device.

6.3 Environmental Considerations

Operate the router within its specified temperature and humidity ranges. Ensure adequate ventilation to prevent heat buildup, which can affect performance and longevity.

7. TROUBLESHOOTING

This section provides guidance for common issues you might encounter.

7.1 Power Issues

- **No Power:** Verify the power cord is securely connected to both the router and a working electrical outlet. Check the power switch position.
- **Power LED Off:** If the power LED is off, ensure the power supply is functioning correctly.

7.2 Network Connectivity Problems

- **No Link Light:** Check Ethernet cable connections. Ensure the connected device is powered on and functioning.
- **Cannot Access Router:** Verify IP address configuration on your management workstation. Ensure firewall rules are not blocking access.
- **Internet Access Failure:** Check WAN interface status, ISP connection, and routing table entries.

7.3 System Reset

In some cases, a system reset may be necessary. Consult Cisco documentation for proper reset procedures, as improper resets can lead to configuration loss.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	Cisco
Model Name	ISR 4431
Item Model Number	ISR4431/K9
RAM	4000 MB
Flash Memory Size	8000 MB
Operating System	Cisco IOS IP Base

Feature	Specification
Hardware Platform	PC
Number of USB 2.0 Ports	2
Connectivity Technology	Ethernet
Product Dimensions (LxWxH)	22.8 x 6 x 17.6 inches
Item Weight	0.32 ounces
Color	Black
Voltage	240 Volts
Recommended Uses	Business
Included Components	Router, Rack mounting kit

9. WARRANTY INFORMATION

The Cisco ISR 4431 Router is covered by a manufacturer's warranty. For specific terms, conditions, and duration of the warranty, please refer to the documentation provided with your purchase or visit the official Cisco website. Keep your proof of purchase for warranty claims.

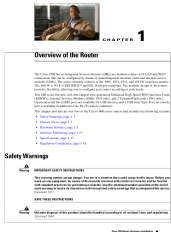
10. CUSTOMER SUPPORT

For technical assistance, additional documentation, or to report issues, please visit the official Cisco support website or contact Cisco customer service. Ensure you have your product model number (ISR4431/K9) and serial number ready when seeking support.

Official Cisco Website: www.cisco.com

Related Documents - ISR4431/K9

	Cisco 4000 Series Integrated Services Routers Data Sheet This data sheet provides detailed specifications and features of the Cisco 4000 Series Integrated Services Routers (ISRs), highlighting their performance, security, and convergence capabilities for branch office networking.
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	Installing and Upgrading Cisco IOS XE Software on 4000 Series ISRs A comprehensive guide detailing the process of installing and upgrading software, including ROMMON images and licenses, on Cisco 4000 Series Integrated Services Routers running Cisco IOS XE.
	Cisco 819 Series Integrated Services Routers Software Configuration Guide This guide provides comprehensive instructions and details for configuring the software features of Cisco 819 Integrated Services Routers (ISRs), covering product overviews, wireless capabilities, security features, and network configuration.
	Cisco 1800 Series Integrated Services Routers Fixed Configuration Models - Product Overview Comprehensive overview of Cisco 1800 Series Fixed Configuration Integrated Services Routers (ISRs), detailing their features, specifications, network applications, security capabilities, wireless integration, and ordering information for small to medium-sized businesses and enterprise branch offices.
	Cisco 1900 Series Routers Hardware Installation Guide & Overview Explore the Cisco 1900 Series Integrated Services Routers (ISRs) with this hardware installation guide. Learn about models 1905, 1921, 1941, and 1941W, including chassis views, hardware features, interface specifications, and safety instructions.
	Cisco 1800 Series Integrated Services Routers Quick Start Guide This guide provides essential information for installing, connecting, and initially configuring Cisco 1800 Series Integrated Services Routers. It covers hardware installation, basic setup, and accessing support resources.

ISR4431/K9 Datasheet

Router-Switch.com

Overview

Cisco 4431 Integrated Services Router, which supports 3 Network Interface Modules (NIM) slots, delivers 500 Mbps to 1 Gbps aggregate throughput. This router also supports two kinds of DDRM, data plane and control/services plane, which make administrator easy to manage the router.

Quick Specs

Figure 1 shows the appearance of Cisco ISR4431/K9.



Table 1 shows the Quick Specs.

Product Code	Cisco ISR4431/K9
Aggregate Throughput	500 Mbps to 1 Gbps
Total onboard WAN or LAN SFP/10G SFP ports	4
10/40 Gbps ports	4
SFP-based ports	4
Enhanced service modules (ESM) slot	3
WAN Network Interface Module slots	3
Onboard I/O slot	1
DDRM (Data plane)	2 GB (ISR4431) / 2 GB (ISR4431-K9)
DDRM (Control/services plane)	4 GB (ISR4431) / 8 GB (ISR4431-K9)
Flash Memory	8 GB (ISR4431) / 16 GB (ISR4431-K9)
Power supply options	Internal AC, DC, and PoE
Back height	1 RU
Dimensions (H x W x D)	433 x 438.13 x 167.2 mm
Package Weight	15.88 kg

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ISR4431/K9 Datasheet

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Overview

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Cisco ISR4431/K9 Integrated Services Router Datasheet

Detailed datasheet for the Cisco ISR4431/K9 Integrated Services Router, featuring specifications, quick specs, product details, module compatibility, and comparison with similar models. Includes throughput, port details, memory, power, and physical dimensions.

lang:en score:39 filesize: 221.43 K page_count: 6 document date: 2019-04-30

ISR4431/K9 Datasheet

Router-Switch.com

Overview

Cisco 4431 Integrated Services Router, which supports 3 Network Interface Modules (NIM) slots, delivers 500 Mbps to 1 Gbps aggregate throughput. This router also supports two kinds of DDRM, data plane and control/services plane, which make administrator easy to manage the router.

Quick Specs

Figure 3 shows the appearance of Cisco ISR4431/K9.



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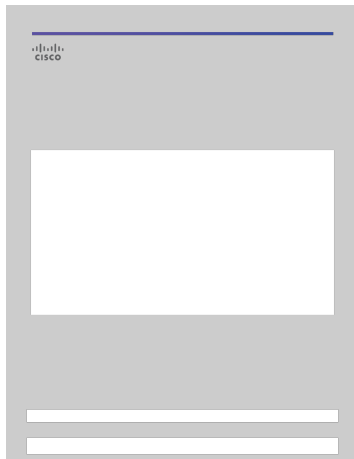
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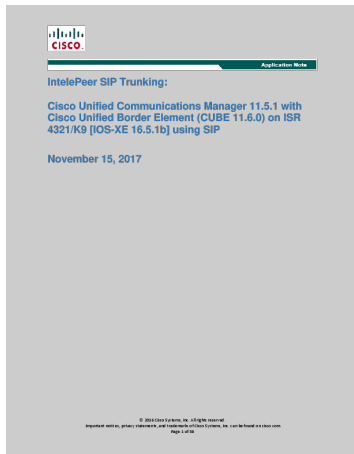
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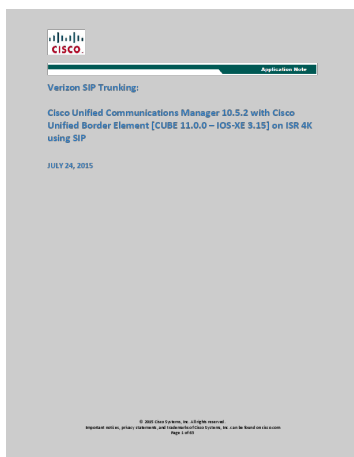
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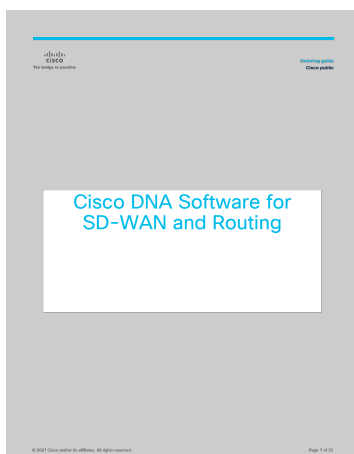
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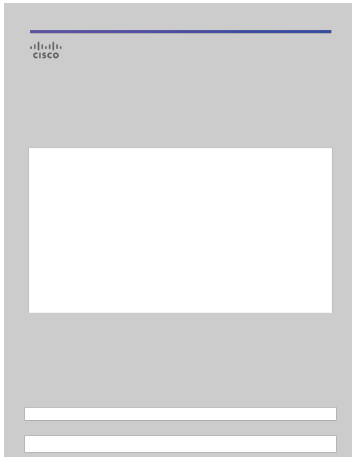
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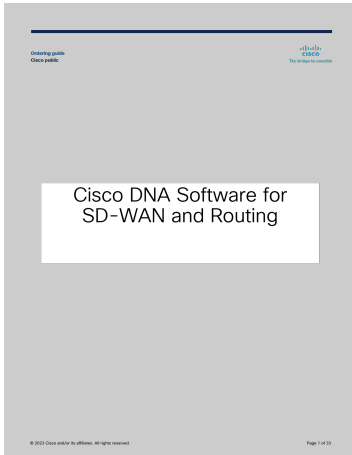
[Cisco DNA Software for SD-WAN and Routing Ordering Guide](#)

This guide provides comprehensive instructions for ordering Cisco DNA Software subscriptions for SD-WAN and Routing. It covers platform selection, software types, subscription tiers, bandwidth entitlements, and the ordering process, including smart account and virtual account setup, as well as services and security features.
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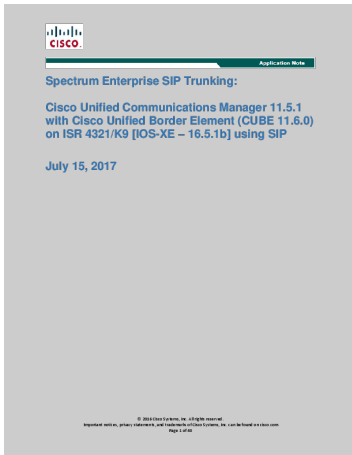
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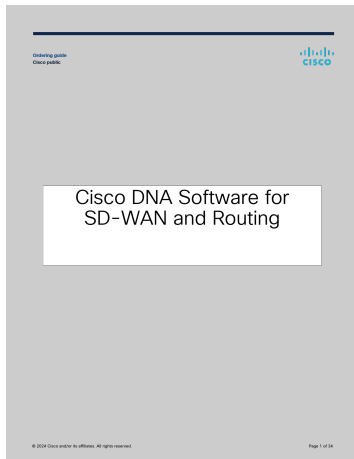
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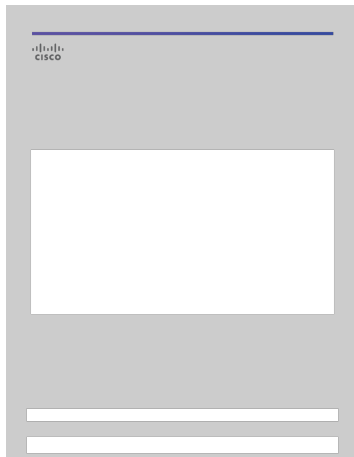


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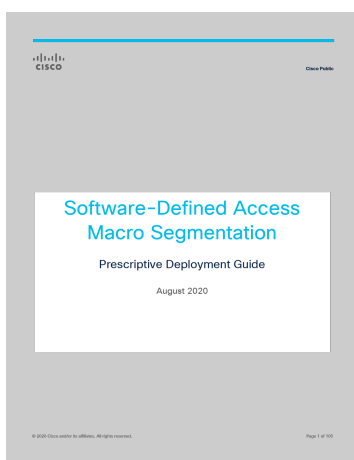


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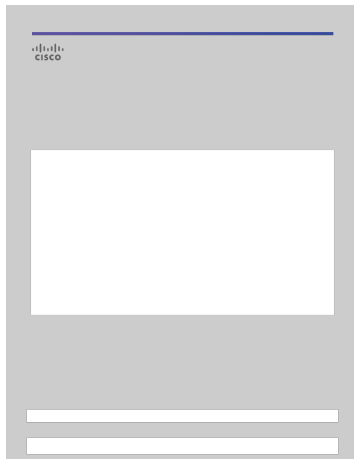


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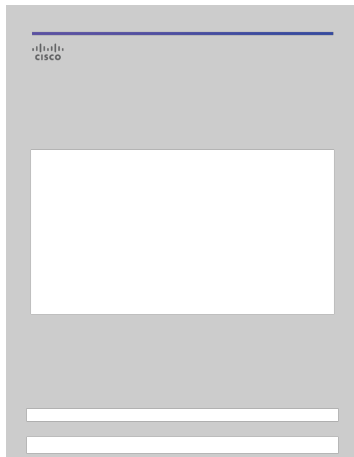


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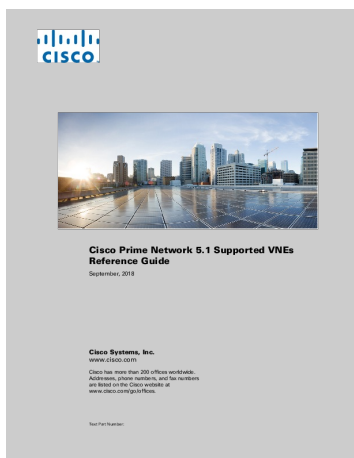


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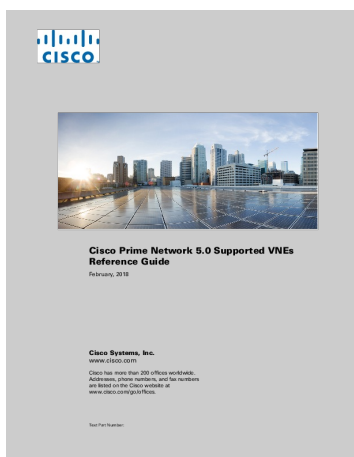


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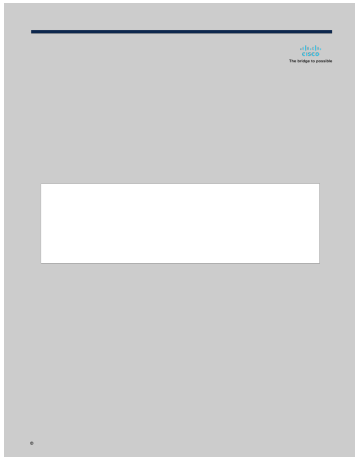


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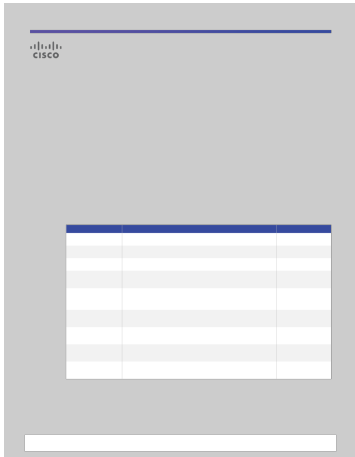
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Cisco DNA Software for SD-WAN and Routing Ordering Guide

This guide details how to order Cisco DNA Software for SD-WAN and Routing, covering platform options, subscription tiers, bandwidth entitlements, and licensing procedures for enterprise network deployments.

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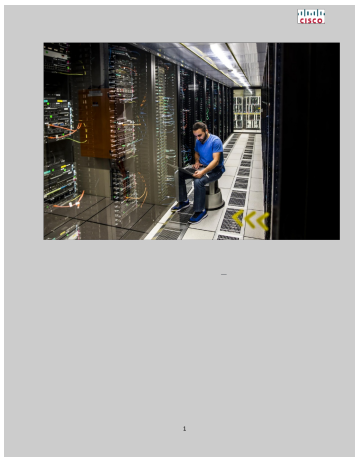


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End of Sale and Life Announcement for the Cisco 3900 Series Integrated Services Routers Administrator eos eol notice c51 737830 cisco c en us products collateral routers series integrated services isr

Product End-of-Life Notice End-of-Sale and End-of-Life Announcement for the Cisco 3900 Series Integ ... EC Lic, FL-CUBE25 ISR4451-X-VSEC/K9 Cisco 3925 Chassis slot for SPE, 2 SM slots, dual PS slots **ISR4431/K9** VPN ISM module HSEC bundles for 3925 ISR platform. **ISR4431/K9** HSEC bundle no ISM VPN ...

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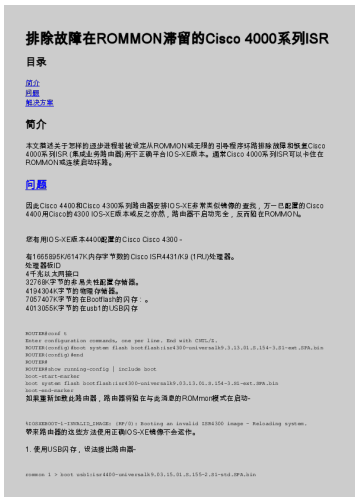


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Software-Defined Access for Distributed Campus Solution Adoption Prescriptive Reference Deployment G9.2s ASR 1000x Series ISR 4451x Series ASR1002-X ISR4451-X/K9 16.9.2s 16.9.2s ISR 4431 Series **ISR4431/K9** 16.9.2s ISR 4351 Series ISR4351/K9 16.9.2s ISR 4331 Series ISR4331/K9 16.9.2s WLC...

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ROMMONCisco 4000ISR ROMMONCisco 4000ISR IOS-XECisco 4000ISR ROMMON Cisco 4400Cisco 4300IOS-XECisco 4400Cisco4300 IOS-XEROMMON IOS-XE4400Cisco Cisco 4300 - 1665895K/6147KCisco **ISR4431/K9** 1RU ID 4 32768K 4194304K 7057407KBootflash 4013055Kusb1USB ROUTER#conf t Enter configuration commands, o...

lang:af score:21 filesize: 137.01 K page_count: 3 document date: 2020-02-24



[pdf]

IntelePeer SIP Trunking CUCM 11 5 1 with CUBE 0 on ISR 4321 IOS XE 16 1b using Dhirendra Kumar Dhiraj intelepeer sip trunking ucm cisco c dam en us solutions collateral enterprise interoperability portal |||

IntelePeer SIP Trunking: Cisco Unified Communications Manager 11.5.1 with Cisco Unified Border Eleme ... Components Hardware Requirements Cisco UCSC-C240-M3S VMWare host running ESXi 5.5 Standard Cisco **ISR4431/K9** router as CUBE Cisco **ISR4431/K9** 1RU processor with 1684579K/6147K bytes of memory with... lang:da **score:21** filesize: 1.21 M page_count: 37 document date: 2017-07-28

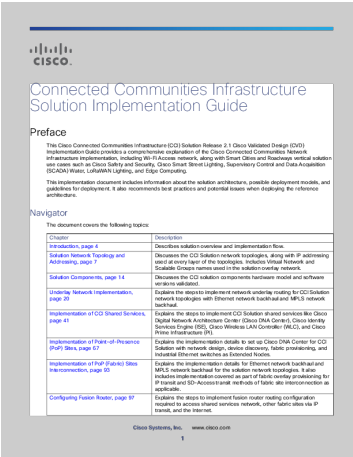


[pdf] Troubleshooting Guide

Dépannez la gamme Cisco 4000 ISR coincée dans ROMMON bloquée Dépannage de 200678

Troubleshoot Series Stuck cisco c fr ca support docs routers series integrated services |||

Dpannez la gamme Cisco 4000 ISR coincide dans ROMMON Contenu Introduction Problme Solution Introductio ... Voici que vous avez Cisco 4400 configur avec une release IOS-XE de Cisco 4300 - Processeur de Cisco **ISR4431/K9** 1RU avec les octets 1665895K/6147K de la mmoire. ID de panneau de processeur 4 interfac... lang:fr **score:20** filesize: 82.7 K page_count: 3 document date: 2020-02-24



[pdf] Guide

Connected Communities Infrastructure Solution Implementation Guide ctsadmin wern p gen This Chapter 42 71 MB Solutions Cisco cci ig cisco c en us td docs solutions Verticals CCI IG |||

Connected Communities Infrastructure Solution Implementation Guide Preface This Cisco Connected Com ... -Presence RPoP Sites Hub Configuration Details: License is required for ISR 4451: license udi pid **ISR4431/K9** sn FOC18094C2P license accept end user agreement license boot level appxk9 license boot l... lang:en **score:20** filesize: 42.71 M page_count: 614 document date: 2022-05-09

ISR4221/K9 DataSheet

Check its price [HERE](#)

Overview

Cisco ISR4221 Integrated Services Router is designed to deliver advanced services such as router-to-router connectivity, IP services, SD-WAN capabilities by default. With xgig you can grow performance, you can increase forwarding capacity (Tbps) by buying licenses.

Quick Specs

Info > Features > Quick Specs

Product Code	Cisco ISR421-K9
Aggregate Throughput	55 Mbps to 75 Tbps
Total licensed ports or LAs (ISR4200 1000 ports)	2
K9 All-based ports	2
GFP-based ports	5
SSL connections (Cisco Secure Plus)	2
Outbound NAT rate	50
Default memory double-data-rate 3 (DDR3) error-correction-code (ECC) RAM (Configured control)/work-on-disk (planes)	4 GB
Flash memory	4 GB
Power supply options	Optional AC only
Back height	1 RJU
Dimensions (H x W x D)	1.72 x 12.7 x .50 (43.7 x 32.0 x 12.7 mm)
Weight with AC PC kit modules	7.3 lb (3.22 kg)

Product Details

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

The image shows the front panel of a Cisco ISR4221-K9 network device. On the left side, there are several status LEDs labeled "POWER", "FAN", "TEMPERATURE", and "SERIAL". In the center, there is a large array of green LEDs, likely representing port status. To the right of the green LEDs, there are more status LEDs labeled "LINK", "ACTIVITY", and "FAULT". Below the main LED array, there is a label "Cisco IOS Software". The entire panel is housed in a black metal chassis.

(There are 4 LEDs on the front panel).

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

[illegible]

[\[pdf\]](#) Specifications Datasheet Dimension Guide

ISR4221/K9 Datasheet Check its price: [Click Here](#) Overview Cisco 4221 Integrated Services router is ... to Similar Items Table 3 shows the comparison. Technical Specifications ISR4461/K9 ISR4451-X/K9 **ISR4431/K9** Aggregate Throughput 1.5Gbps Total onboard 4 WAN or LAN 10/100/1000 ports 1 Gbps to 2...
lang:en score:20 filesize: 128.82 K page_count: 4 document date: 2019-04-30

Troubleshoot Cisco 4000 Series ISR ROMMON Issues

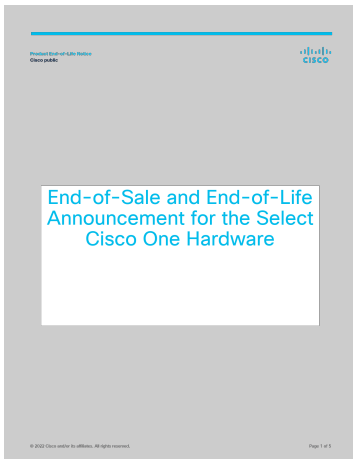
lang:en score:20 filesize: 12.94 K page_count: 3 document date: 2023-12-04

[\[pdf\]](#) Troubleshooting Guide

Cisco 4000 Series ISR del Troubleshooting pegadas en ROMMON Contenido

Introduccin Problema Solucin I ... N. Aqu usted tiene Cisco 4400 configurado con una versin IOS-XE de Cisco 4300 - Procesador de Cisco **ISR4431/K9** 1RU con los bytes 1665895K/6147K de la memoria. ID de la placa de procesador 4 interfac...

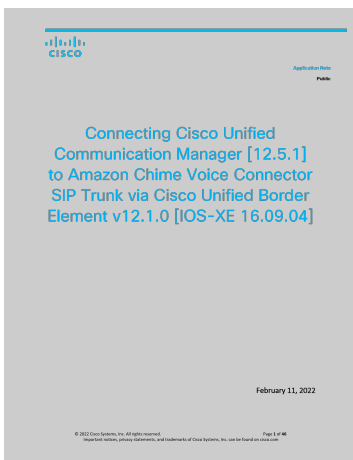
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[pdf]

End of Sale and Life Announcement for the Select Cisco One Hardware RR Donnelley 2022 04 29 — announces end sale life dates The last day to order affected product s is October 28 one hardware eol cisco c en us products collateral routers 3900 series integrated services isr |||

Product End-of-Life Notice Cisco public End-of-Sale and End-of-Life Announcement for the Select Cisc ... LASH,4G DRAM,IPB ISR4351/K9 C1-CISCO4431/K9 Cisco ONE ISR 4431 4GE,3NIM,8G FLASH,4G DRAM,IPB **ISR4431/K9** C1-CISCO4451/K9 Cisco ONE ISR 4451 ISR4451-X/K9 4GE,3NIM,2SM,8G FLASH,4G DRAM, IPB C... lang:en score:19 filesize: 285.02 K page_count: 5 document date: 2022-05-05



[pdf]

Connecting Cisco Unified Communication Manager 12 5 1 to Amazon Chime Voice Connector SIP Trunk via Border Element v12 0 IOS XE 16 09 04 Murali Vuppandla connecting cisco unified communication manager amazon chime voice connector sip trunk border element c dam en us solutions collateral enterprise interoperability portal ios xe |||

Application Note Public Connecting Cisco Unified Communication Manager 12.5.1 to Amazon Chime Voic ... ager Cisco UCM and Amazon Chime Voice Connector network, Cisco Unified Border Element Cisco UBE **ISR4431/K9** running IOS-XE 16.9.4 can be used. The Cisco Unified Border Element provides demarcation,... lang:da score:19 filesize: 1.09 M page_count: 46 document date: 2022-02-14



[pdf] Specifications Datasheet Dimension Guide

isr4321 k9 cisco router 5 iming data5 PH NY LP SELLER 581492 |||

ISR4321/K9 Datasheet Get a Quote Overview Cisco 4321 Integrated Services router is design to deliver ... dule, MMF, 850nm, DOM Compare to Similar Items Technical Specifications ISR4461/K9 ISR4451-X/K9 **ISR4431/K9** Aggregate Throughput 1.5Gbps 1 Gbps to 2 Gbps 500 Mbps to 1 Gbps Total onboard 4 4 ...

lang:en score:19 filesize: 197.73 K page_count: 6 document date: 2019-08-29

NIM-ES2-8-P Datasheet
Check its price [Click Here](#)

Overview

The 8-port Cisco NIM-ES2-8-P Network Interface Module (NIM) is a modular, plug-and-play device that provides 8 Gigabit Ethernet ports. It is designed to be used in conjunction with the Cisco ISR4351/K9 and ISR4351-K9 routers. The NIM-ES2-8-P is a modular, plug-and-play device that provides 8 Gigabit Ethernet ports. It is designed to be used in conjunction with the Cisco ISR4351/K9 and ISR4351-K9 routers.

Quick Specs

The figure shows the appearance of the NIM-ES2-8-P.



Table 1 shows the quick specs.

Product Number	NIM-ES2-8-P
Product Description	8-Port Layer 2 Gigabit Ethernet Switch Module NIM
Form Factor	Single-width 96U form factor
Dimensions (H x W x D)	5.0 x 6.2 x 4.8 in. (12.7 x 15.8 x 12.2 cm)
Weight	1.0 lb (0.45 kg)

Supported Devices

Table 2 shows the supported devices for the NIM-ES2-8-P.

Product Number	Model	Description
Cisco ISR4351-K9	Cisco ISR4351-K9 (200M) 4G/16GB/40G/160GB	200Mbps system throughput, 2 10/100/1000 ports, 1 GPP port, multi-core CPU, 2 SFPs
Cisco ISR4351-K9	Cisco ISR4351-K9 (200M) 4G/16GB/40G/160GB	200Mbps system throughput, 2 10/100/1000 ports, 1 GPP port, multi-core CPU, 2 SFPs, 16GB DRAM, 40GB flash, 160GB storage
Cisco ISR4351-K9	Cisco ISR4351-K9 (200M) 4G/16GB/40G/160GB	200Mbps system throughput, 2 10/100/1000 ports, 1 GPP port, multi-core CPU, 2 SFPs, 16GB DRAM, 40GB flash, 160GB storage
Cisco ISR4351-K9	Cisco ISR4351-K9 (200M) 4G/16GB/40G/160GB	200Mbps system throughput, 2 10/100/1000 ports, 1 GPP port, multi-core CPU, 2 SFPs, 16GB DRAM, 40GB flash, 160GB storage

[\[pdf\]](#) Datasheet Dimension Guide

cisco nim es2 8 p network interface module 5 imimg data5 HE IS ZU SELLER 20732801 |||

NIM-ES2-8-P Datasheet Check its price: [Click Here](#) Overview The 8-port Cisco Gigabit Ethernet LAN Swi ... 1 service module slots, Security, Voice, WAAS, Intelligrnt WAN, OnePK, AVC Cisco ISR4351/K9 Cisco **ISR4431/K9** Cisco ISR 4351 3GE,3NIM,2SM,4G FLASH,4G DRAM,IP Base 200Mbps-400Mbps system throughp...

lang:en **score:19** filesize: 100.07 K page_count: 3 document date: 2019-04-30

ISR4221/K9 Datasheet
Get a Quote Overview Cisco 4221 Integrated Services router

Overview

The Cisco 4221 Integrated Services Router (ISR) is a modular, plug-and-play device that provides 4 Gigabit Ethernet ports. It is designed to be used in conjunction with the Cisco ISR4221-K9 and ISR4221-K9 routers. The ISR4221-K9 is a modular, plug-and-play device that provides 4 Gigabit Ethernet ports. It is designed to be used in conjunction with the Cisco ISR4221-K9 and ISR4221-K9 routers.

Quick Specs

Table 1 shows the quick specs.

Product Code	Cisco ISR4221-K9
Aggregate Throughput	50 Mbps to 75 Mbps
Total onboard 10/100 or LAN 10/100/1000 ports	4
On-board ports	4
10/100 ports	4
10/100/1000 ports	4
Onboard SFP slots	4
Default memory module (DDR3)	4 GB
Flash memory	4 GB
Power supply options	External AC only
Back height	1 RU
Dimensions (H x W x D)	1.7 x 17.1 x 17.1 (43 x 433 x 433 mm)
Weight with SFP (see model)	11.1 lb (5.0 kg)

Product Details

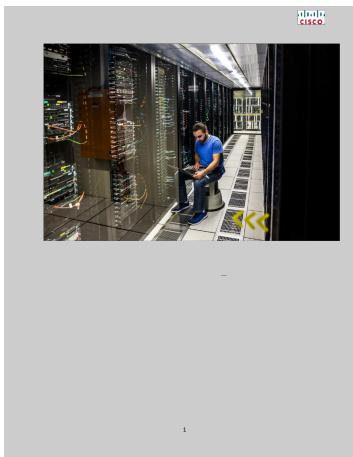
Figure 1 shows the front panel of the Cisco ISR4221-K9.

[\[pdf\]](#) Specifications Datasheet Dimension Guide

isr4221 k9 datasheet Router Switch ISR4221 K9 Datasheet Get a Quote Overview Cisco 4221 Integrated Services router is design to deliver advanced services the small enterprise branch switch 2html |||

ISR4221/K9 Datasheet Get a Quote Overview Cisco 4221 Integrated Services router is design to delive ... service-module slots NIM slots 3 OIR all I/O Yes modules Onboard ISC slot 1 ISR4451-X/K9 **ISR4431/K9** 1 Gbps to 2 Gbps 4 500 Mbps to 1 Gbps 4 4 4 4 4 2 0 1 assumes no 0 singlewide S...

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[\[pdf\]](#) Guide

Software Defined Access for Distributed Campus Deployment Guide Lisa DeRuyter lideruyt Sindhu Sudhir sisudhir SD 2019JUL jerome pro 8443 c en us td docs solutions CVD

Software-Defined Access for Distributed Campus Solution Adoption Prescriptive Reference Deployment G9.2s ASR 1000x Series ISR 4451x Series ASR1002-X ISR4451-X/K9 16.9.2s 16.9.2s ISR 4431 Series **ISR4431/K9** 16.9.2s ISR 4351 Series ISR4351/K9 16.9.2s ISR 4331 Series ISR4331/K9 16.9.2s WLC...

lang:en **score:19** filesize: 8.7 M page_count: 168 document date: 2021-05-08

ISR4451-X/K9 Datasheet

Router-Switch.com

Overview

Cisco 4451 Integrated Services Router, named as ISR4451-X, which supports 2 Enhanced service modules (ESM-X) slots, 4 slots to 2 slots aggregate throughput. This router also supports two slots of 220W, data plane and architecture plane, which make administration easy to manage the router.

Quick Specs

Figure 1 shows the appearance of Cisco ISR4451-X/K9.



Table 1 shows the Quick Specs.

Product Code	Cisco ISR4451-X/K9
Aggregate Throughput	5 Gbps to 20 Gbps
Total onboard slots or LANE 10/100/1000 ports	4
10/100-based ports	4
10/100-based ports	4
Enhanced service modules (ESM-X) slots	2
NIM (Network Interface Module) slots	3
Onboard I/O slot	2 (8 Gbps) / 2 (8 Gbps)
ESM (Service Module) slots	4 (8 Gbps) / 4 (8 Gbps)
Flash Memory	8 GB (8 Gbps) / 12 GB (8 Gbps)
Power supply options	Internal AC, DC (on-trail) and PoE
Back height	2 RU
Dimensions (H x W x D)	88.5 x 438.25 x 465.5 mm

Product Details

Figure 2 shows the front panel of Cisco ISR4451-X/K9.

[pdf] Specifications Datasheet Dimension Guide

ISR4451 X K9 Thiết bị định tuyến Router Cisco isr4451 x k9 datasheet sss net vn storage |||

ISR4451-X/K9 Datasheet Get a Quote Overview Cisco 4451 Integrated Services Router, named as ISR4451- ... ule, SMF, 1550nm, DOM Compare to Similar Items Technical Specifications ISR4461/K9 ISR4451-X/K9 **ISR4431/K9** Aggregate Throughput 1.5Gbps 1 Gbps to 2 Gbps 500 Mbps to 1 Gbps Total onboard 4 4 ... lang:en **score:19** filesize: 254.88 K page_count: 6 document date: 2021-07-26

ISR4451-X/K9 Datasheet

Router-Switch.com

Overview

Cisco 4451 Integrated Services Router, named as ISR4451-X, which supports 2 Enhanced service modules (ESM-X) slots, 4 slots to 2 slots aggregate throughput. This router also supports two slots of 220W, data plane and architecture plane, which make administration easy to manage the router.

Quick Specs

Figure 1 shows the appearance of Cisco ISR4451-X/K9.



Table 1 shows the Quick Specs.

Product Code	Cisco ISR4451-X/K9
Aggregate Throughput	5 Gbps to 20 Gbps
Total onboard slots or LANE 10/100/1000 ports	4
10/100-based ports	4
10/100-based ports	4
Enhanced service modules (ESM-X) slots	2
NIM (Network Interface Module) slots	3
Onboard I/O slot	2 (8 Gbps) / 2 (8 Gbps)
ESM (Service Module) slots	4 (8 Gbps) / 4 (8 Gbps)
Flash Memory	8 GB (8 Gbps) / 12 GB (8 Gbps)
Power supply options	Internal AC, DC (on-trail) and PoE
Back height	2 RU
Dimensions (H x W x D)	88.5 x 438.25 x 465.5 mm

Product Details

Figure 2 shows the front panel of Cisco ISR4451-X/K9.

[pdf] Specifications Datasheet Dimension Guide

isr4451 x k9 cisco router 5 imimg data5 XV EJ IE SELLER 581492 |||

ISR4451-X/K9 Datasheet Get a Quote Overview Cisco 4451 Integrated Services Router, named as ISR4451- ... ule, SMF, 1550nm, DOM Compare to Similar Items Technical Specifications ISR4461/K9 ISR4451-X/K9 **ISR4431/K9** Aggregate Throughput 1.5Gbps 1 Gbps to 2 Gbps 500 Mbps to 1 Gbps Total onboard 4 4 ... lang:en **score:19** filesize: 255.04 K page_count: 6 document date: 2019-08-29

ISR4351/K9 Datasheet

Router-Switch.com

Overview

Cisco 4351 Integrated Services Router, which supports 2 Network Interface Modules (NIM) slots, 4 slots to 2 slots aggregate throughput.

Quick Specs

Figure 1 shows the appearance of Cisco ISR4351/K9.



Table 1 shows the Quick Specs.

Product Code	Cisco ISR4351/K9
Aggregate Throughput	200 Mbps to 400 Mbps
Total onboard slots or LANE 10/100/1000 ports	3
10/100-based ports	3
10/100-based ports	3
Enhanced service modules (ESM-X) slots	2
NIM (Network Interface Module) slots	2
Onboard I/O slot	3
Memory	4 GB (8 Gbps) / 16 GB (8 Gbps)
Flash Memory	4 GB (8 Gbps) / 16 GB (8 Gbps)
Power supply options	Internal AC, DC (on-trail) and PoE
Back height	2 RU
Dimensions (H x W x D)	43.8 x 438.25 x 337.2 mm

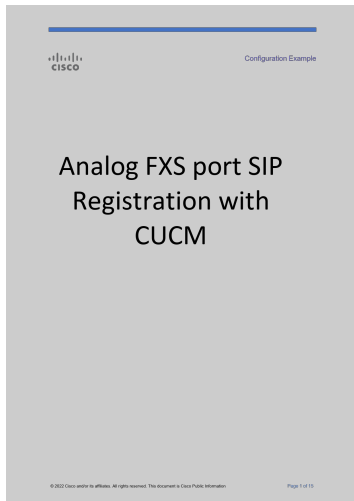
Product Details

Figure 2 shows the front panel of Cisco ISR4351/K9.

[pdf] Specifications Datasheet Dimension Guide

ISR4351 K9 Datasheet 30 mag 2022 — Cisco is one of the 4000 series routers which support new modules cards slots such as NIM ISC etc Besides 6 pagine isr4351 k9 datasheet sss net vn storage |||

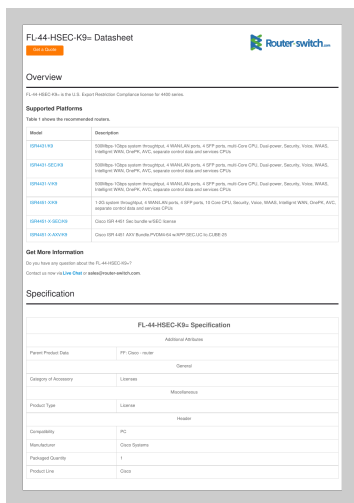
ISR4351/K9 Datasheet Get a Quote Overview Cisco 4351 Integrated Services Router, which supports 3 Ne ... ule, SMF, 1550nm, DOM Compare to Similar Items Technical Specifications ISR4461/K9 ISR4451-X/K9 **ISR4431/K9** Aggregate Throughput 1.5Gbps 1 Gbps to 2 Gbps 500 Mbps to 1 Gbps Total onboard 4 4 ... lang:en **score:18** filesize: 237.99 K page_count: 6 document date: 2021-07-26



[pdf]

Analog FXS Port SIP Registration with CUCM Anna Komarovska annkomar Cisco The show dsapp line device summary command shows whether the ports are successfully registered to as endpoints Router Total Devices 3 Device Dev Directory Last Number Identifier Name State Type Dialed analog fxs port sip registration cucmv2 cisco apps c dam en us support docs unified communications vg series gateways ||| Configuration Example Analog FXS port SIP Registration with CUCM 2022 Cisco and/or its affiliates. ... 0 and VG400 IOS: 17.8.1 CUCM: 14.0 SU1 Supported Platforms Cisco ISR4451-X/K9 Cisco ISR446/K9 Cisco **ISR4431/K9** Cisco ISR4351/K9 Cisco ISR4331/K9 Cisco ISR4321/K9 C8300-2N2S-4T2X C8300-2N2S-6T C8300-1N...

lang:en **score:18** filesize: 750.45 K page_count: 13 document date: 2022-05-03



[pdf] Datasheet

FL 44 HSEC K9 Datasheet Router Switch ISR4431 500Mbps 1Gbps system throughput 4 WAN LAN ports SFP multi Core CPU Dual power Security Voice WAAS Intelligrnt OnePK AVC fl hsec k9 datasheet router switch 2html ||| FL-44-HSEC-K9= Datasheet Get a Quote Overview FL-44-HSEC-K9= is the U.S. Export Restriction Compliance license for 4400 series. Supported Platforms Table 1 shows the recommended routers. Model Description **ISR4431/K9** 500Mbps-1Gbps system throughput, 4 WAN/LAN ports, 4 SFP ports, multi-Core CP... lang:en **score:18** filesize: 42.92 K page_count: 2 document date: 2022-07-01



[Cisco Catalyst 8000 Edge Platforms: SD-WAN and SASE Solutions](#)

Explore the Cisco Catalyst 8000 Series Edge Platforms, designed for SD-WAN and SASE, offering high performance, advanced security, and flexible deployment options. Includes specifications, modules, and Cisco DNA licensing details. lang:it **score:17** filesize: 3.32 M page_count: 7 document date: 2021-11-08

シスコ ルーター



Cisco ISR 800/900J シリーズ サービス統合型ルーター	26
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Cisco Systems G K cisco catalog routers c dam global ja jp products |||

Cisco ISR 800/900J 26 Cisco ISR 1000 27 Cisco ISR 4000 28 Cisco Catalyst
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GB*7 2 RU ISR4351-AXV/K9 **ISR4431/K9** IP Base SEC UC APP 200 Mbps IP Base
500 Mbps 400 Mbps 1 Gbps ISR4431-SEC/K9 I...

lang:en score:17 filesize: 3.12 M page_count: 8 document date: 2021-10-14