

Cisco 3200 Series Wireless And Mobile Router— Ordering Brochure

Cisco® 3200 Series wireless and mobile routers are rugged wireless routers that offer secure data, voice, and video communication, and support multiple wired and wireless links, including integrated 802.11b/g and 4.9-GHz wireless technologies. With a flexible, compact form factor, these rugged routers are ideally suited for integration into vehicles or outdoor environments. Standards-based Mobile IP delivers transparent roaming for mobile applications; and Cisco IOS® Software provides security, manageability, and scalability, along with interoperability between networks, while allowing for future network expansions and upgrades.

The Cisco 3200 Series is a modular platform consisting of an IP routing, serial, fast ethernet, and wireless interfaces. The following cards are the building blocks for the Cisco 3200 Series:

- Mobile Access Router Card (MARC)
- Serial Mobile Interface Card (SMIC)
- Fast Ethernet Switch Mobile Interface Card (FESMIC)
- 2.4-GHz and 4.9-GHz wireless mobile interface cards (WMICs)
- Optional Cisco Rugged Enclosure with Mobile Router Power Card (MRPC) and internal cabling

The components above can be embedded into a system integrator's enclosure or purchased from Cisco as a fully assembled bundle in a Cisco 3200 rugged enclosure. The rugged enclosure addresses specific physical and environmental deployment requirements for public safety, homeland security, transportation, and defense markets. Manufactured by Cisco Systems®, the Cisco 3200 rugged enclosure completely seals the cards and is designed to withstand harsh environments inside vehicles and in outdoor deployments. The enclosure is designed to withstand high temperature variations, high altitude, intense shock/vibration, and exposure to damp, wet, or dusty conditions. For more information on the Cisco 3200 Series, visit:

<http://www.cisco.com/go/3200>

Eligibility to Purchase and Resell the Cisco 3200 Series Wireless and Mobile Router

Cisco Wireless Specialized Partners are eligible to purchase and resell the Cisco 3200 Series Wireless and Mobile Router when it is offered as a bundled solution in a Cisco 3200 rugged enclosure. Cisco Authorized Technology Provider (ATP) Program partners are systems integrators that are qualified and authorized to embed Cisco 3200 Series components into third-party enclosures. Participation in the Cisco 3200 ATP Program is by Cisco nomination only. Partners interested in participating in the program should contact their Cisco channel account manager.

How to Order the Cisco 3200 Series Wireless and Mobile Router

You can order Cisco 3200 Series products as you would any other Cisco product. The components can be ordered through the Cisco online ordering tool, through distribution, or through a Cisco customer service agent.

To address the variety of applications and markets in which the product is used, Cisco offers the ordering options listed in Table 1.

Table 1. Cisco 3200 Series Ordering Options

Cisco 3200 Series Ordering Option	Number of Cisco 3200 Series Router and Interface Cards	Cisco IOS Software Image for MARC	Cisco Rugged Enclosure Included	Additional Components	Purchase Eligibility Requirements
Option 1: Rugged Enclosure Bundle	Varies depending on bundle	Cisco IOS Advanced Enterprise Services included	Yes	Antennas and external power cables must be purchased separately	Cisco Wireless Specialized Partners and Cisco 3200 Series Authorized Technology Providers
Option 2: Cisco Router and Interface Card Bundles	Varies depending on bundle	Cisco IOS Advanced Enterprise Services included	No	Power card, internal cabling, antennas, and external power cables must be purchased separately	Cisco 3200 Series Authorized Technology Providers
Option 3: Spare Router and Interface Cards	Single card purchase	Cisco IOS Enterprise Base included	No	Power card, internal cabling, antennas, and external power cables must be purchased separately	Cisco 3200 Series Authorized Technology Providers

The first option is to order Cisco 3200 Series bundles assembled in a Cisco Rugged Enclosure. These rugged enclosure bundles provide multiple configurations of router and mobile interface cards fully assembled in the Cisco Rugged Enclosure.

The second option is to order Cisco 3200 Series card bundles. Many systems integrators want to purchase the Cisco 3200 Series router and interface cards and embed them in custom mobile and outdoor enclosures. The Cisco 3200 Series card bundles offer a convenient way to order a predetermined set of router and mobile interface cards.

The third ordering option for the Cisco 3200 Series is to order individual or spare cards and components.

Ordering Option 1: Cisco 3200 Series Bundles in the Fully Assembled Cisco Rugged Enclosure

The rugged enclosure provides a single housing and robust protection for the Cisco 3200 Series Wireless and Mobile Router components. There are two different Cisco rugged enclosures available for order. The first enclosure is for the Cisco 3230 and the second enclosure is for the Cisco 3270. Figure 1 and Figure 2 show the two different Cisco rugged enclosures.

Each router and mobile interface card stored inside the enclosure has a set of thermal plates surrounding it which act as a thermal conductor to dissipate heat from the hottest components on the card. All router and mobile interface cards inserted in the Cisco 3200 Series Rugged Enclosure must have thermal plates. Spare mobile interface cards can be ordered with or without thermal plates (Cisco 3270 spare router cards are only available with thermal plates preassembled). Cisco does not sell thermal plates separately.

Figure 1. Cisco Rugged Enclosure for the Cisco 3230 Router



Figure 2. Cisco Rugged Enclosure for the Cisco 3270 Rugged Router



Table 2 outlines the preconfigured bundles you can order in the fully assembled Cisco 3200 rugged enclosure. You can insert spare mobile interface cards (MICs) later, provided there are available slots. When you add other MICs, be sure to order the MICs with thermal plates. MICs that have thermal plates include the letters 'TP' in the part number. For details, see the discussion of ordering option 3 later in this guide.

The Cisco 3200 Series bundles in the Cisco Rugged Enclosure do not include external wireless antennas or external power cabling. The Cisco 3200 Series utilizes DC power and cabling of various types and lengths to connect to a DC power source. For AC power, an AC Power adapter and cabling is required. For more information on purchasing options for these components, see the antenna guide at

http://www.cisco.com/en/US/prod/collateral/routers/ps272/prod_brochure0900aecd80371218.html

and the Cisco 3200 Series Power Cabling Guide at

http://www.cisco.com/en/US/prod/collateral/routers/ps272/prod_brochure0900aecd8028f6f8.html

Table 2. Fully Assembled Cisco 3200 Router Bundles in the Cisco Rugged Enclosure

Cisco 3230 Series Bundles	Description	Cisco SMARTnet (8x5xNBD) Support
Cisco 3230 Series Rugged Enclosure WMIC Bundles Worldwide (Fully Assembled)		
C3230ENC-1WMIC-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (1) 2.4-GHz WMIC	CON-SNT-C3230ENC
C3230ENC-2WMIC-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (2) 2.4-GHz WMICs	CON-SNT-C3230EN2
C3230ENC-3WMIC-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (3) 2.4-GHz WMICs	CON-SNT-C3230EN3
Cisco 3230 Series Rugged Enclosure WMIC Bundles for the United States (Fully Assembled)		
C3230ENC-1W-49-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (1) 4.9-GHz WMIC for the United States	CON-SNT-32301W49
C3230ENC-24-49-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (1) 2.4-GHz and (1) 4.9-GHz WMIC for the United States	CON-SNT-32302449
C3230ENC-2W24-49K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (2) 2.4-GHz WMICs and (1) 4.9-GHz WMIC for the United States	CON-SNT-ENCW2449
C3230ENC-3W-49-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (3) 4.9-GHz WMICs for the United States	CON-SNT-ENC3W49
Cisco 3230 Series Rugged Enclosure WMIC Bundles for Europe (Fully Assembled)		
C3230ENC-2WMICE-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (2) 2.4-GHz WMICs for most of Europe	CON-SNT-2WMICE
C3230ENC-3WMICE-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (3) 2.4-GHz WMICs for most of Europe	CON-SNT-3WMICE
Cisco 3230 Series Rugged Enclosure WMIC Bundles for Japan (Fully Assembled)		
C3230ENC-2WJ-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (2) 2.4-GHz WMICs for Japan	CON-SNT-ENC2WJ
C3230ENC-2WJ10-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and (2) 2.4-GHz WMICs (10 mW) for Japan	CON-SNT-ENC2WJ10
Worldwide Cisco 3230 Series Rugged Enclosure Bundles with No WMICs (Fully Assembled)		
C3230ENC-K9	Cisco 3230 bundle assembled in rugged enclosure; includes 1 Cisco 3230 Router, 1 SMIC, 1 FESMIC, 1 MRPC, no WMICs	CON-SNT-C3230ENK

Cisco 3270 Series Bundles	Description	Cisco SMARTnet (8x5xNBD) Support
Cisco 3270 Rugged Router Bundles Containing Cisco 3270 Router Card with 2 Gigabit Ethernet Ports		
C3270ENC-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes 1 Cisco 3270 Router, 1 SMIC, 1 FESMIC, and 1 MRPC	CON-SNT-3270ENCK
C3270ENC-1W-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes 1 Cisco 3270 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and 1 WMIC	CON-SNT-32701WK9
C3270ENC-2W-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes 1 Cisco 3270 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and 2 WMICs	CON-SNT-32702WK9
C3270ENC-3W-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes 1 Cisco 3270 Router, 1 SMIC, 1 FESMIC, 1 MRPC, and 3 WMICs	CON-SNT-32703WK9
Cisco 3270 Router Bundles Containing Cisco 3270 Router Card with Fiber-Optic, 1 SFP, and 1 Gigabit Ethernet Port		
C3270ENC-FO-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes 1 Cisco 3270 Router with SFP, 1 SMIC, 1 FESMIC, and 1 MRPC	CON-SNT-3270FOK9

Cisco 3270 Series Bundles	Description	Cisco SMARTnet (8x5xNBD) Support
C3270ENC-1W-FO-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes 1 Cisco 3270 Router with SFP, 1 SMIC, 1 FESMIC, 1 MRPC, and 1 WMIC	CON-SNT-32701WFO
C3270ENC-2W-FO-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes 1 Cisco 3270 Router with SFP, 1 SMIC, 1 FESMIC, 1 MRPC, and 2 WMICs	CON-SNT-32702WFO
C3270ENC-3W-FO-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes 1 Cisco 3270 Router with SFP, 1 SMIC, 1 FESMIC, 1 MRPC, and 3 WMICs	CON-SNT-32703WFO
Cisco 3200 WMIC Accessory Kit for the Cisco 3230 Series WMICs		
C3230WMIC-KIT=	Cisco 3200 WMIC Accessory Kit for Cisco 3230 Series WMICs (The WMIC Assembly Kit provides antenna connectors and internal cabling for the WMICs. The C3230WMIC-KIT= must be ordered when customers are upgrading an existing C3230ENC bundle with a spare WMIC. The WMIC Assembly Kit provides antenna connectors and internal cabling required for adding the WMIC to a Cisco 3230 rugged enclosure bundle.	N/A

Note: The Cisco 3230 Series Rugged Enclosure bundles are also available to be ordered as unassembled kits (C3230TP-xWMIC-K9). The components are the same as the fully assembled bundles shown in Table 2, but the enclosure and card bundles are unassembled. Authorized Cisco 3200 Series Authorized Technology Provider systems integrators may choose this option if they wish to further customize the enclosure to meet unique customer requirements. With an assembly kit, systems integrators can assemble the Cisco 3200 Series card stack and integrate third-party modem cards, such as PC-104+ compliant Code Division Multiple Access (CDMA) or Universal Mobile Telecommunications Service (UMTS) modems. (Integrators must develop thermal plates for third-party PC-104+ cards that conform to the Cisco Rugged Enclosure design.) Please contact your Cisco account manager for more information on how to order assembly kit bundles.

Ordering Option 2: Standalone Cisco 3200 Series Card Bundles (No Enclosure)

Cisco 3230 Series card bundles (router and mobile interface cards without the rugged enclosure) can be ordered by Cisco 3200 Series Authorized Technology Providers. These bundles consist of the same router and mobile interface cards as the rugged enclosure bundles, but do not have the thermal plates and rugged enclosure components. Systems integrators can order Cisco 3230 Series router and interface cards to provide a Cisco wireless and mobile network solution in custom enclosures in order to meet unique deployment requirements.

These standalone card bundles ship as a set of cards with a single MARC, SMIC, and FESMIC, and an optional number of WMICs. The standalone card bundles do not include the Cisco enclosure, MRPC, or internal or external cabling. The Cisco 3200 Series card stacks are powered by a DC-to-DC power converter card available through Datel Corporation. You can order Datel power cards through the following Website: <http://www.cd4power.com/>. (Spare power cards with thermal plates can be ordered directly from Cisco using the following part number: C3201MRPC-TP=). Internal and external cables can be ordered separately through sales reference documentation. Information on how to order these power cables can be found at the following url:

http://www.cisco.com/en/US/prod/collateral/routers/ps272/prod_brochure0900aecd8028f6f8.html

Figure 3 shows a Cisco 3230 Series Mobile Interface Card bundle.

Figure 3. Cisco 3230 Card Bundle



Table 3 lists the Cisco 3230 Series card bundles available to order from Cisco. The common denominator for each bundle is a MARC, SMIC, or FESMIC. Part numbers beginning with 'C3231' do not include a SMIC. Part numbers with a 'TP' indicate card bundles with thermal plates assembled on each card. Finally, The part number indicates the quantity and type of WMIC included in the bundle.

Table 3. Standalone Cisco 3200 Series Card Bundles (No Enclosure)

Cisco 3200 Series Bundles	Description	Cisco SMARTnet (8x5xNBD) Support
Worldwide Card Bundles (no WMICs)		
C3230-K9	Cisco 3230 bundle with MARC, SMIC & FESMIC	CON-SNT-C3230K9
C3231-K9	Cisco 3230 bundle with MARC & FESMIC	
Cisco 3200 Series WMIC Card Bundles for North America		
C3230-1WMIC-K9	Cisco 3230 bundle with (1) 2.4-GHz WMIC for North America	CON-SNT-C3230C1W
C3230-2WMIC-K9	Cisco 3230 bundle with (2) 2.4-GHz WMICs for North America	CON-SNT-C3230WMIC
C3230-3WMIC-K9	Cisco 3230 bundle with (3) 2.4-GHz WMICs for North America	CON-SNT-C32303WC
C3230-1W-49-K9	Cisco 3230 bundle with (1) 4.9-GHz WMIC for the United States	CON-SNT-32301W49
C3230-24-49-K9	Cisco 3230 bundle with (1) 2.4-GHz WMIC for North America and (1) 4.9-GHz WMIC for the United States	CON-SNT-32302449
C3230-2W24-49-K9	Cisco 3230 bundle with (2) 2.4-GHz WMICs for North America and (1) 4.9-GHz WMIC for the United States	CON-SNT-2W2449
C3230-3W-49-K9	Cisco 3230 bundle with (3) 4.9-GHz WMICs for the United States	CON-SNT-32303W49
Cisco 3200 Series WMIC Card Bundles for Europe		
C3230-2WMICE-K9	Cisco 3230 bundle with (2) 2.4-GHz WMICs for most of Europe	CON-SNT-3230MICE
C3230-3WMICE-K9	Cisco 3230 bundle with (3) 2.4-GHz WMICs for most of Europe	CON-SNT-3WMICE
Cisco 3200 Series WMIC Card Bundles for Japan		
C3230-2WMICJ-K9	Cisco 3230 bundle with (2) 2.4-GHz WMICs for Japan	CON-SNT-C32302WMICJ
C3230-2WMICJ10-K9	Cisco 3230 bundle with (2) 2.4-GHz WMICs (10 mW) for Japan	CON-SNT-2WMICJ10

Note: Card bundles are only available for the Cisco 3230 models.

Ordering Option 3: Cisco 3200 Series Individual or Spare Cards for Use with and without the Cisco Rugged Enclosure

The third way to order Cisco 3200 Series products is to order individual or spare cards. As Table 4 shows, Cisco 3200 Series router and mobile interface cards are available to order with or without thermal plates. Cards with thermal plates are used with the Cisco 3200 Series Rugged Enclosure and are identified with the letters "TP" in the part number. Customers may purchase additional spare WMICs and add them to available slots inside the Cisco Rugged Enclosure. The Cisco 3200 Rugged Enclosure bundles are limited to 1 SMIC and 1 FESMIC.

Cards without thermal plates are to be embedded in third-party enclosure designs offered by qualified system integrators. Cisco does not sell thermal plates separately.

Table 4. Cisco 3200 Series Spare Cards

Cisco 3200 Series Spare Cards	Description	Cisco SMARTnet (8x5xNBD) Support
Cisco 3200 Series Mobile Interface Cards (Without Thermal Plates)		
CISCO3251MARC	Cisco 3200 Series Mobile Access Router Card	CON-SNT-C3251MARC
CISCO3201SMIC=	Cisco 3200 Series Serial Mobile Interface Card	CON-SNT-C3201SMI
CISCO3201FESMIC=	Cisco 3200 Series Fast Ethernet Switch Mobile Interface Card	CON-SNT-C2301FEIC
C3201WMIC-A-K9=	Cisco 3200 Series 802.11b/g Wireless Mobile Interface Card for North America	CON-SNT-C3201CA9
C3201WMIC-E-K9=	Cisco 3200 Series 802.11b/g Wireless Mobile Interface Card for most of Europe	CON-SNT-C3201WMI
C3201WMIC-J-K9=	Cisco 3200 Series 802.11b/g Wireless Mobile Interface Card for Japan	CON-SNT-C320WCJK
C3201WMIC-J10-K9=	Cisco 3200 Series 802.11b/g Wireless Mobile Interface Card for Japan (10 mW)	CON-SNT-C320WJK9
C3202WMIC-A49-K9=	Cisco 3200 Series 4.9-GHz Wireless Mobile Interface Card	CON-SNT-C3202WMI
Cisco 3200 Series Mobile Interface Cards (with Thermal Plates)		
C3251MARC-TP	Cisco 3200 Series Mobile Access Router Card	CON-SNT-C3251MAR
C3201SMIC-TP=	Cisco 3200 Series Serial Mobile Interface Card	CON-SNT-C3201SMC
C3201FESMIC-TP=	Cisco 3200 Series Fast Ethernet Switch Mobile Interface Card	CON-SNT-C3201FES
C3201WMIC-TPAK9=	Cisco 3200 Series 802.11b/g Wireless Mobile Interface Card for North America	CON-SNT-C3201WMA
C3201WMIC-TPEK9=	Cisco 3200 Series 802.11b/g Wireless Mobile Interface Card for most of Europe	CON-SNT-C3201WME
C3201WMIC-TPJK9=	Cisco 3200 Series 802.11b/g Wireless Mobile Interface Card for Japan	CON-SNT-C3201WCT
C3201WMIC-TPJ10K9=	Cisco 3200 Series 802.11b/g Wireless Mobile Interface Card for Japan (10 mW)	CON-SNT-C3201WMJ
C3202WMIC-TPA49K9=	Cisco 3200 Series 4.9-GHz Wireless Mobile Interface Card	CON-SNT-C3202WMT

Cisco 3270 Series Spare Cards	Description	Cisco SMARTnet (8x5xNBD) Support
Cisco 3270 Spare Router Cards (Offered with thermal plates only)		
C3271MARC-TP=	Cisco 3270 Rugged Router Card with 2 Gigabit Ethernet copper ports, 2 10/100 Fast Ethernet ports, 2 USB ports, 1 auxiliary port, and 1 console	CON-SNT-3271MARC
C3271MARC-FO-TP=	Cisco 3270 Rugged Router Card with 1 fiber-optic port, 1 Gigabit Ethernet copper port, 2 10/100 Fast Ethernet ports, 2 USB ports, 1 auxiliary port, and 1 console	CON-SNT-3271FOTP
GLC-LX-SM-RGD=	1,000mbps Single Mode Rugged SFP	N/A
GLC-SX-MM-RGD=	1,000mbps Multi-Mode Rugged SFP	N/A

For More Information

For more information about the Cisco 3200 Series Wireless and Mobile Router, visit:

<http://www.cisco.com/go/3200> or contact your local account representative. You also can visit the following additional resources:

Cisco 3200 Series Wireless and Mobile Router Data Sheets:

http://www.cisco.com/en/US/products/hw/routers/ps272/products_data_sheet_0900aecd800fe973.html

Cisco 3270 Rugged Router Data Sheet:

http://www.cisco.com/en/US/products/hw/routers/ps272/products_data_sheet_0900aecd804c207b.html

Cisco 3230 Series Rugged Enclosure:

http://www.cisco.com/en/US/products/hw/routers/ps272/products_data_sheet_0900aecd8028e3a7.html

Cisco 3200 Series Reference Sell Document:

http://www.cisco.com/en/US/products/hw/routers/ps272/products_technical_reference_book_09186a008018e628.html



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