Cisco 3200 Series Wireless and Mobile Router Intelligent Video Server

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 Intelligent Video Server (IVS) bundle consisting of the IVS video card, a replacement antenna endcap for the Cisco 3200 Series enclosure, and internal cabling is available from a third-party system integrator fully assembled into a Cisco 3200 Series Wireless and Mobile Router enclosure bundle.

The IVS video card is a compact, PC-104+ based, two-channel video adapter employing H.264 or MPEG-4 video compression and advanced video analytics from the leading analytics vendors. The video card transforms standard analog video cameras into IP video streams, delivering reliable content analysis and high performance. This video card is equipped with Point, Tilt, and Zoom (PTZ) control, audio channel encoding, and supports the same rugged and extended temperature ranges as the Cisco 3200 Series routers.

Highlights:

- Two analog video inputs (NTSC or PAL)
- MPEG4, MJPEG, H.264 codecs
- Frames rates from 1-30 fps
- Frame sizes VGA, QVGA, 4 CIF, CIF, and QCIF
- Two mono or one stereo inputs and outputs
- G.711, MP3 audio codecs
- PTZ support
- One composite video output
- Fully industrial grade operating range: -40ºC to 85ºC
- RS-232 and RS-422/RS-485
- One Ethernet port, 10/100 Base-T
- Integrated video analytics
- Easily configured and managed via Web browser and network applications

The IVS video card's onboard software allows full command and control of video parameters such as resolution, bit rate, frame rate, and the video analytics embedded into the card through simple user interfaces. The software also supports on-board video analytics that can modify the behavior

of the video encoder on the fly, to conserve wireless bandwidth when nothing "interesting" (as defined by user generated rules) is being viewed.

The intelligent video server feature is supported by most of the leading video management and storage systems, and is easily integrated into existing IP-based video systems.

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, 4.9-GHz, and 5.8-GHz wireless mobile interface cards (WMICs)
- Rugged enclosure with Mobile Router Power Card (MRPC) and internal cabling

The rugged enclosure addresses specific physical and environmental deployment requirements for public safety, homeland security, transportation, and defense markets. Manufactured by Cisco, the Cisco 3200 Series 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 and vibration, and exposure to damp, wet, or dusty conditions.

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. Figures 3 and 4 show the modified rear endcaps that allow connection of analog video and audio sources and camera PTZ control.

Each router and mobile interface card stored inside the enclosure has a set of thermal plates surrounding it that act as a thermal conductor to dissipate heat from the hottest components on the card.

Figure 1.   Cisco Rugged Enclosure for the Cisco 3230 Wireless and Mobile Router

Front View   Rear View

Figure 2. Cisco Rugged Enclosure for the Cisco 3270 Wireless and Mobile Router

For more information on the Cisco 3200 Series, visit: http://www.cisco.com/go/3200

After the intelligent video server bundle has been integrated with the Cisco 3200 Series enclosures, the replacement antenna endcaps, as shown in Figures 3 and 4, allow connection of analog video and audio sources and camera PTZ control.

Figure 3. Cisco Rugged Enclosure for the Cisco 3230 Router (rear)

Figure 4. Cisco Rugged Enclosure for the Cisco 3270 Router (rear)

Eligibility to Purchase and Resell the Cisco 3200 Series Wireless and Mobile Router with Intelligent Video Server Feature

Cisco Wireless Specialized Partners are eligible to purchase and resell the Cisco 3200 Series Wireless and Mobile Router and the intelligent video server when it is offered as a bundled solution in a Cisco 3200 Series rugged enclosure. Advanced technology partner status is not required.

How to Order the Intelligent Video Server Feature for the Cisco 3200 Series Wireless and Mobile Router

To order complete system with the video card, including the modified Cisco 3200 Series enclosure endcap, and internal cabling, follow these steps:

1. Use Table 1 below to choose the desired base Cisco 3200 Series Mobile and Wireless Router configuration you want.

2. Place the order with the system integrator requesting that the Intelligent Video Server bundle be integrated with the desired Cisco 3200 Series SKU. Include Cisco SKUs for all Cisco 3200 accessory items are required for the Cisco 3200 Series products, including power adapter and antennas. For details, see the antenna guide at: http://www.cisco.com/en/US/products/hw/routers/ps272/prod_brochure0900aecd80371218.html and the See also the Cisco 3200 Series Power Cabling Guide at: http://www.cisco.com/en/US/products/hw/routers/ps272/prod_brochure0900aecd8028f6f8.html

For pricing, support, warranty information and information about video anlaytics licensing, contact the system integrator(s) at:

Western DataCom

Sales Department

959-B Bassett Rd.

Westlake, OH 44145

USA

Tel: +1 (800) 262-3311

Tel: +1 (440) 835-1510

Fax: +1 (440) 835-9146

www.western-data.com

Product Web page:

http://www.western-data.com/products/comcase_g.php (Cisco 3230 enclosure)

http://www.western-data.com/products/comcase_p.php (Cisco 3270 enclosure)

Table 1 lists the Cisco 3200 Series product SKUs are available for integration with the video card.

Table 1.   Fully Assembled Cisco 3200 Router Bundles in the Cisco Rugged Enclosures

Cisco 3230 Series Bundles	Description
Cisco 3230 Series Rugged Enclosure Wireless Mobile Interface Card (WMIC) bundles worldwide (fully assembled)	
C3230ENC-1WMIC-K9	Cisco 3230 bundle assembled in rugged enclosure; includes one Cisco 3230 router, one Serial Mobile Interface Card (SMIC), one Fast Ethernet Switch Mobile Interface Card (FESMIC), one Mobile Router Power Card (MRPC), and one 2.4-GHz WMIC
C3230ENC-2WMIC-K9	Cisco 3230 bundle assembled in rugged enclosure; includes one Cisco 3230 Router, one SMIC, one FESMIC, one MRPC, and two 2.4-GHz WMICs
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 one Cisco 3230 Router, one SMIC, one FESMIC, one MRPC, and one 4.9-GHz WMIC for the United States
C3230ENC-24-49-K9	Cisco 3230 bundle assembled in rugged enclosure; includes one Cisco 3230 Router, one SMIC, one FESMIC, one MRPC, and one 2.4-GHz and (1) 4.9-GHz WMIC for the United States
Cisco 3230 Series Rugged Enclosure WMIC bundles for Europe (fully assembled)	
C3230ENC-2WMICE-K9	Cisco 3230 bundle assembled in rugged enclosure; includes one Cisco 3230 Router, one SMIC, one FESMIC, one MRPC, and two 2.4-GHz WMICs for most of Europe

Cisco 3230 Series Bundles	Description
Cisco 3230 Series Rugged Enclosure WMIC Bundles for Japan (fully assembled)	
C3230ENC-2WJ-K9	Cisco 3230 bundle assembled in rugged enclosure; includes one Cisco 3230 Router, one SMIC, one FESMIC, one MRPC, and two 2.4-GHz WMICs for Japan
C3230ENC-2WJ10-K9	Cisco 3230 bundle assembled in rugged enclosure; includes one Cisco 3230 Router, one SMIC, one FESMIC, one MRPC, and two 2.4-GHz WMICs (10 mW) for Japan
Worldwide Cisco 3230 Series Rugged Enclosure Bundles with No WMICs (fully assembled)	
C3230ENC-K9	Cisco 3230 bundle assembled in rugged enclosure; includes one Cisco 3230 Router, one SMIC, one FESMIC, one MRPC, no WMICs

Cisco 3270 Series Bundles	Description
Cisco 3270 Rugged Router Bundles Containing Cisco 3270 Router Card with 2 Gigabit Ethernet Ports (fully assembled)	
C3270ENC-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes one Cisco 3270 Router, one SMIC, one FESMIC, and one MRPC
C3270ENC-1W-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes one Cisco 3270 Router, one SMIC, one FESMIC, one MRPC, and one WMIC
C3270ENC-2W-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes one Cisco 3270 Router, one SMIC, one FESMIC, one MRPC and two WMICs
Cisco 3270 Router Bundles Containing Cisco 3270 Router Card with Fiber-Optic, one SFP, and one Gigabit Ethernet Port (fully assembled)	
C3270ENC-FO-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes one Cisco 3270 Router with SFP, one SMIC, one FESMIC, and one MRPC
C3270ENC-1W-FO-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes one Cisco 3270 Router with SFP, one SMIC, one FESMIC, one MRPC, and one WMIC
C3270ENC-2W-FO-K9	Cisco 3270 Bundle assembled in extended rugged enclosure; includes one Cisco 3270 Router with SFP, one SMIC, one FESMIC, one MRPC, and two WMICs

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.