

Overview

ICI Networks Outdoor Wireless IP Base Station for Cisco 3200 Series Routers

PRODUCT OVERVIEW

A fully assembled NEMA 4-rated wireless IP base station, which includes the Cisco® 3200 Series Router, is available to Cisco 3200 Series Advanced Technology Providers and can be purchased from ICI Networks. This packaged solution for outdoor deployment of Cisco 3200 Series routers simplifies the deployment of wireless outdoor network solutions.

As an increasing number of applications for wireless and mobile IP routing based on Cisco 3200 Series routers have arisen with public safety and transportation customers, the need for a highly ruggedized base station to support outdoor operation of the routers has become paramount to the successful deployment of wireless and mobile IP networks to support these applications. The Cisco 3200 Series Router, based on the PC-104 form factor, can be adapted to specialized installation requirements and deployed in environments for which traditional networking equipment is not suited due to size or environmental conditions. The ICI Networks Outdoor Wireless IP Base Station for the Cisco 3200 Series provides the ruggedized characteristics needed to deliver a complete outdoor wireless installation in support of stringent environmental specifications, including NEMA 4 and IP 66 (Figure 1). The Outdoor Wireless IP Base Station provides protection for harsh environmental conditions, such as moisture, dust, rain intrusion, corrosion, vandalism, and thermal/solar load.

Figure 1. The Outdoor Wireless IP Base Station for Cisco 3200 Series Routers



When enclosed in the Outdoor Wireless IP Base Station, Cisco 3200 Series routers can be deployed in outdoor environments, thereby providing a network infrastructure component that can create and interconnect broadband wireless hotspots within a Metropolitan Mobile Network architecture. For example, the Outdoor Wireless IP Base Station can be used for deployment in a metropolitanwide wireless network, where each Cisco 3200 Series wireless router is placed at, for example, each intersection to provide hotspot wireless coverage and, simultaneously, to support video surveillance and traffic monitoring at the intersection.

The Outdoor Wireless IP Base Station for Cisco 3200 Series routers offers several installation options, including pad-mounted, wall-mounted, or pole-mounted configurations, to facilitate deployment in a wide variety of rural or urban outdoor settings. Furthermore, this enclosure can support either wireless or wireline connectivity, and supports antenna and camera mounting options. Figure 2 shows some of the configuration options available with this enclosure.

Figure 2. Diagrams of Outdoor Wireless IP Base Station for Cisco 3200 Series Routers



FEATURES AND BENEFITS

Table 1 lists the main features and benefits of the Outdoor Wireless IP Base Station for Cisco 3200 Series routers.

Table 1. Features and Benefits

Feature	Benefit
Patented Design	Minimizes enclosure size and weight
All-Aluminum Construction with Polyester Powder Coat Paint	Helps ensure long-lasting protection against corrosion
Double-Wall Construction	Helps ensure protection against driving rain, dust, solar load, and vandalism
Heat Sink in Side Walls of Enclosure	Provides enhanced protection against heat load
Bulkhead I/O Access Plate on Bottom of Unit	Provides a protected central access point for system ground and cabling
Equipment Access Plate Mounting	Allows easy access for service replacement
N+1 Temperature-Controlled Cooling Fans	Helps ensure maximum thermal protection and extended component life
Temperature Alarm	Supports remote monitoring of operating temperature
Up to 10 PC-104+ Cards (Excluding Power Cards)	Supports a diverse range of outdoor networked features and functions
Optional Surge Protectors	Protects against electrical surges in power source
Optional Amplifiers	Strengthens and extends transmission distance of radio signal

PRODUCT SPECIFICATIONS

Table 2 lists the product specifications for the Outdoor Wireless IP Base Station for Cisco 3200 Series routers.

Table 2. Product Specifications

Feature	Description
External Dimensions (HxWxD)	19.3 x 17.9 x 8.7 in. (490 x 455 x 220 mm)
Weight	<ul style="list-style-type: none"> • 35.5 lb unloaded (not including PC-104+ modules; including Cisco 3200 Series router) • Approximately 45 lbs loaded, depending on PC-104+ modules included
Internal Dimensions (HxWxD)	15.8 x 11.8 x 5.9 in. (400 x 300 x 151 mm)
Network and Power Connectors	<ul style="list-style-type: none"> • 6 N-type antenna out connectors • 2 RJ-45 (CAT-5) Ethernet-out strain relief connectors • 2 serial-out strain relief connectors • 1 AC power-in strain relief • 2-hole ground lug connector out
Thermal Operating Range	<ul style="list-style-type: none"> • Outside ambient: –40 to 46°C (–40 to 115°F) • Internal ambient: –40 to 85°C (–40 to 185°F)
Mean Time Between Failure (MTBF)	<ul style="list-style-type: none"> • 500,000 to 1,000,000 hours for both the Cisco 3200 Series routers and the other components of the outdoor base station, not including fans • 40,000 to 50,000 hours for the fans based on 24x7 usage with N+1 fan configuration • Temperature controlled fans extend MTBF, depending on ambient temperature
Electrical Power	<ul style="list-style-type: none"> • Supply: 90W AC/DC • Consumption: 84W in maximum configuration (11 PC/104+ cards)
Electrical Options	<ul style="list-style-type: none"> • Remote temperature alarm over serial • Surge protection: <ul style="list-style-type: none"> – On Ethernet connectors – On serial connectors – On RF connectors • DC power injectors for powering amplifiers • 220V relay circuit for incidental overcharge protection
Mechanical Options	<ul style="list-style-type: none"> • Mounting options: <ul style="list-style-type: none"> – Pad mount – Pole mount – Wall mount • Colors (standard RAL 7032) • Locking systems • Rain canopies

ORDERING INFORMATION

The Outdoor Wireless IP Base Station for Cisco 3200 Series routers is available only to Cisco 3200 Series Advanced Technology Providers.

For Cisco partners that are interested in becoming a Cisco 3200 Series Advanced Technology Provider, please send e-mail to 3200ATP@cisco.com.

For additional ordering information, visit:

- 4.9 GHz Wireless Metropolitan Base Station from ICI Networks—Ordering Overview
http://www.cisco.com/en/US/prod/collateral/routers/ps272/prod_brochure0900aecd80363486.pdf
- 2.4 GHz Wireless Metropolitan Base Station from ICI Networks—Ordering Overview
http://www.cisco.com/en/US/prod/collateral/routers/ps272/prod_brochure0900aecd8036347c.pdf

WARRANTY AND SUPPORT

Cisco Warranty and Technical Support provides a 90-day warranty and Cisco Technical Assistance Center (TAC) support on each Cisco 3200 Series Router, its components, and the accompanying Cisco IOS® Software. Cisco 3200 Series router components include mobile access router cards, serial mobile interface cards, and Fast Ethernet switching mobile interface cards. Customers also have the option to purchase a Cisco SMARTnet® contract, which offers additional warranty and support services. For more information about Cisco SMARTnet support, visit:

http://www.cisco.com/en/US/products/svcs/ps3034/ps2827/ps2978/serv_group_home.html.

- For more information about Cisco services, visit [Cisco Technical Support Service](#) or [Cisco Advanced Services](#).

**Corporate Headquarters**

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters

Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on **the Cisco Website at www.cisco.com/go/offices.**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus
Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel
Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal
Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan
Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2005 Cisco Systems, Inc. All rights reserved. CCSP, CCVP, the Cisco Square Bridge logo, Follow Me Browsing, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Access Registrar, Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, FormShare, GigaDrive, GigaStack, HomeLink, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, Linksys, MeetingPlace, MGX, the Networkers logo, Networking Academy, Network Registrar, Packet, PIX, Post-Routing, Pre-Routing, ProConnect, RateMUX, ScriptShare, SlideCast, SMARTnet, StrataView Plus, TeleRouter, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0502R) 205511.W_ETMG_LS_12.05

