

CISCO DESIGNED CBW142ACM

Cisco Business 142ACM Wi-Fi Mesh Extender User Manual

Model: CBW142ACM | Brand: CISCO DESIGNED

1. INTRODUCTION

The Cisco Business 142ACM Wi-Fi Mesh Extender is designed to expand your existing Cisco Business Wireless network coverage. This 802.11ac 2x2 Wave 2 Mesh Extender plugs directly into a wall outlet, providing flexible deployment to enhance Wi-Fi signal strength and reach in your workspace. It operates on dual-band frequencies (2.4 GHz and 5 GHz) and supports MU-MIMO technology for efficient wireless communication.



Image 1.1: The Cisco Business 142ACM Wi-Fi Mesh Extender. This device extends your wireless network coverage by plugging directly into a standard AC wall outlet.

Cisco Business 142ACM Mesh Extender



- Enterprise class 802.11ac Wave 2 standard
- 2x2 MU-MIMO with two spatial streams
- Direct to power outlet

CISCO
DESIGNED

Image 1.2: Detailed view of the Cisco Business 142ACM Mesh Extender, highlighting its enterprise-class 802.11ac Wave 2 standard, 2x2 MU-MIMO with two spatial streams, and direct-to-power outlet design.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- Cisco Business 142ACM Mesh Extender
- Support contact pointer card
- Quick Start Guide

3. SETUP INSTRUCTIONS

The Cisco Business 142ACM Mesh Extender is designed for quick and easy setup. It requires an existing Cisco Business Wireless 100 series or 200 series access point (CBW140AC-B, CBW240AC-B, or CBW145AC-B) to function.

1. **Power On:** Plug the CBW142ACM Mesh Extender directly into an available AC wall outlet within range of your existing Cisco Business Wireless Access Point.
2. **Mobile App Setup:** Download and open the Cisco Business Mobile app on your smartphone or tablet.
3. **Scan QR Code:** Use the Cisco Business Mobile app to scan the QR code located on the mesh extender. The app will guide you through the remaining steps to integrate the extender into your wireless network. No additional manual configuration steps are typically required.
4. **Verify Connection:** Once configured, the extender will automatically connect to your Cisco Business Wireless network, extending its coverage. Verify the connection status through the mobile app.

Cisco Business Mobile App

Set up mesh extenders in minutes, and easily manage your wireless network—from any device.



Image 3.1: The Cisco Business Mobile App simplifies the setup and management of your wireless network, including mesh extenders.

4. OPERATING INSTRUCTIONS

Once successfully set up, the Cisco Business 142ACM Mesh Extender operates automatically to extend the range and coverage of your Cisco Business Wireless network. It functions as a wireless repeater, receiving signals from your main access point and retransmitting them to cover areas with weak or no signal.

- **Automatic Operation:** The extender continuously monitors the wireless environment and adjusts its operation to provide optimal coverage.
- **Seamless Roaming:** Devices connected to your network will seamlessly roam between the main access point and the mesh extender without interruption.
- **Status Indicator:** The LED indicator on the device provides visual feedback on its operational status. Refer to the Quick Start Guide for specific LED patterns and their meanings.

5. MAINTENANCE

The Cisco Business 142ACM Mesh Extender requires minimal maintenance to ensure optimal performance and longevity.

- **Cleaning:** Periodically wipe the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or aerosol sprays.
- **Ventilation:** Ensure that the device's ventilation openings are not blocked to prevent overheating.
- **Firmware Updates:** Regularly check for and apply firmware updates through the Cisco Business Mobile app or the web interface of your Cisco Business Wireless network. Firmware updates can improve performance, add new features, and enhance security.

- **Environmental Conditions:** Operate the device within its specified temperature and humidity ranges to prevent damage.

6. TROUBLESHOOTING

If you encounter issues with your Cisco Business 142ACM Mesh Extender, consider the following troubleshooting steps:

- **No Power:** Ensure the extender is securely plugged into a working AC outlet. Check the power outlet with another device.
- **No Connection/Weak Signal:**
 - Relocate the extender closer to your main Cisco Business Wireless Access Point.
 - Ensure there are no major obstructions (e.g., thick walls, large metal objects) between the extender and the access point.
 - Verify that your main access point is powered on and functioning correctly.
- **Configuration Issues:** If the extender is not integrating with your network, try resetting it to factory defaults (refer to the Quick Start Guide for reset instructions) and re-attempt the setup process using the Cisco Business Mobile app.
- **Intermittent Connectivity:** Check for potential interference from other electronic devices (e.g., microwaves, cordless phones). Ensure the extender's firmware is up to date.
- **App Issues:** If the Cisco Business Mobile app is not functioning correctly, ensure it is updated to the latest version. Try restarting the app or your mobile device.

For persistent issues, refer to the detailed documentation available on the Cisco Business support website or contact Cisco support.

7. SPECIFICATIONS

Below are the technical specifications for the Cisco Business 142ACM Wi-Fi Mesh Extender:

Feature	Specification
Model Number	CBW142ACM
Wireless Standard	802.11ac Wave 2
Frequency Band Class	Dual-Band (2.4 GHz, 5 GHz)
Antennas Spatial Streams	2x2:2SS - 80 MHz
Maximum Data Rate	867 Mbps
Special Features	MU-MIMO, WiFi Mesh
Mounting/Placement	Direct to Power Outlet
Number of Wired LAN Ports	None
Security	WPA/WPA2, WPA3, WPA2-Enterprise, RADIUS Server
Power	Connects directly to AC Outlet

Memory	128 MB Flash 256 MB RAM
Dimensions (H x W x D)	3.5 x 5.5 x 1.25 inches (89 x 140 x 31.5 mm)
Item Weight	5 Ounces
Compatible Devices	Cisco Business Wireless 100/200 series access points

CISCO DESIGNED	CBW Mesh Extenders		
	CBW141ACM Mesh Extender	CBW142ACM Mesh Extender	CBW143ACM Mesh Extender
Best For	SoHo / SB / SMB	SoHo / SB / SMB	SoHo / SB / SMB
Mounting/Placement	Desktop	Direct to Power Outlet	Wall
Maximum data rate	867Mbps	867Mbps	867Mbps
Antennas Spatial streams	2X2:2SS – 80 MHz	2X2:2SS – 80 MHz	2X2:2SS – 80 MHz
Number of Wired LAN Ports	4 GbE (1 PoE pass-thru)	None	1 GbE (downlink)
Security	WPA/WPA2, WPA3 , WPA2-Enterprise, RADIUS Server	WPA/WPA2, WPA3, WPA2-Enterprise, RADIUS Server	WPA/WPA2, WPA3, WPA2-Enterprise, RADIUS Server
Power	DC Power Adapter, included	Connects directly to AC Outlet	AC Power Adapter, included
Memory	128 MB Flash 512 MB RAM	128 MB Flash 256 MB RAM	128 MB Flash 256 MB RAM
Dimensions	6 x 4 x 1.5 in	3.5 x 5.5 x 1.25 in	3.5 x 5.5 x 1.25 in
	152.4 x 101.6 x 37.7mm	89 x 140 x 31.5 mm	89 x 140 x 31.5 mm
Warranty	Limited lifetime hardware warranty	Limited lifetime hardware warranty	Limited lifetime hardware warranty

Image 7.1: Comparison of CBW Mesh Extenders, highlighting the specifications of the CBW142ACM model.

8. WARRANTY AND SUPPORT

Your Cisco Business 142ACM Wi-Fi Mesh Extender is covered by a Cisco Limited Lifetime Warranty, providing peace of mind regarding hardware defects.

- **Warranty Details:** The limited lifetime warranty covers the product for as long as the original end user owns the product. Specific terms and conditions apply and can be found on the official Cisco website.
- **Technical Support:** One-year technical support is included with your purchase. For assistance, please refer to the support contact pointer card included in your package or visit the official Cisco Business support portal.
- **Online Resources:** Access comprehensive documentation, FAQs, and community forums on the Cisco Business website for additional support and information.

Your browser does not support the video tag.

Video 8.1: An official video from Cisco showcasing Cisco Business Switches and Wireless solutions. This video provides an overview of the ecosystem that the mesh extender integrates with.

