Docooler LCMDOCOOLERC8298EUIN

Docooler COMFAST CF-EW71 Wireless Router User Manual

MODEL: CF-EW71 (LCMDOCOOLERC8298EUIN)

1. PRODUCT OVERVIEW

Image: The Docooler COMFAST CF-EW71 Wireless Router, a white rectangular device with two external antennas, designed for outdoor use.

1.1. Product Description

The COMFAST CF-EW71 is a high-power outdoor wireless router designed to provide extensive Wi-Fi coverage. It utilizes a Qualcomm QCA9531 main chip, coupled with 64 MB of high-speed memory and 16 MB of flash memory, ensuring robust data forwarding and processing capabilities. This device is ideal for large outdoor areas such as scenic spots, communities, parks, schools, industrial plants, shopping malls, and villages.

Key features include a built-in SE2576L power amplifier for enhanced wireless reception and transmission, support for over 50 concurrent wireless clients, and an IP66 rating for resilience against severe outdoor environments. The router also supports Power over Ethernet (PoE), simplifying installation by allowing power and data transmission over a single cable.

2. KEY FEATURES

- **Omnidirectional Coverage:** Equipped with two oxygen-free copper antennas, providing 360° omnidirectional Wi-Fi coverage suitable for diverse environments.

- **Built-in Power Amplifier:** Features an SE2576L power amplifier to significantly improve wireless network reception and transmission, making it suitable for wide outdoor coverage.

- **High Client Capacity:** A single Access Point (AP) can concurrently handle more than 50 wireless devices, ensuring a stable and lag-free network experience for all connected users.

- **Outdoor Durability (IP66):** Designed to withstand harsh outdoor conditions with an IP66 rating, offering protection against lightning, water, dust, extreme temperatures, and oxidation.

- **POE Power Supply:** Supports Power over Ethernet, which simplifies installation by eliminating the need for a separate power outlet, allowing flexible device placement.

Image: An overview of the COMFAST CF-EW71's capabilities, including 300Mbps speed, high power, Qualcomm chip, 360-degree omnidirectional coverage, and support for over 50 clients.

360° Omnidirectional Coverage

Two oxygen-free copper antennas, 360° omnidirectional Wi-Fi coverage meets the needs of different situations

Image: A visual representation of the 360-degree omnidirectional Wi-Fi coverage provided by the CF-EW71, extending over a wide outdoor area.

Built-in power amplifier

Applied with SE2576L power amplifier
Improves wireless network reception
and transmission function.
Suits for outdoor wide range coverage

Power amplifier

Image: A close-up view of the CF-EW71, emphasizing its built-in power amplifier (PA) for improved signal strength.

50+ Wireless Clients Capacity

A single AP can handle 50 wireless devices concurrentlyAnd assure stable, lag-free network experience

Note: All results are based on Comfast lab tests. Specific parameters will vary based on practical applications.

Image: The CF-EW71 shown supporting multiple wireless clients simultaneously, including laptops, desktops, and mobile phones, ensuring stable connectivity.

Stands up to severe outdoor environments

Outdoor IP66 rating provides the ability to handle different kinds of rugged surroundings

Lightning Protection

Waterproof

Dustproof

Antifreeze

High-Temperature Resistant

Antioxidant

COMFAST

Image: An illustration detailing the CF-EW71's robust outdoor protection features, including resistance to lightning, water (IP66), dust, freezing, high temperatures, and oxidation.

Poe Power Supply, Convenient Use

Device supports Power over Ethernet. This solves the power supply problem in outdoor situations.
Users can flexibly place devices according to the demands

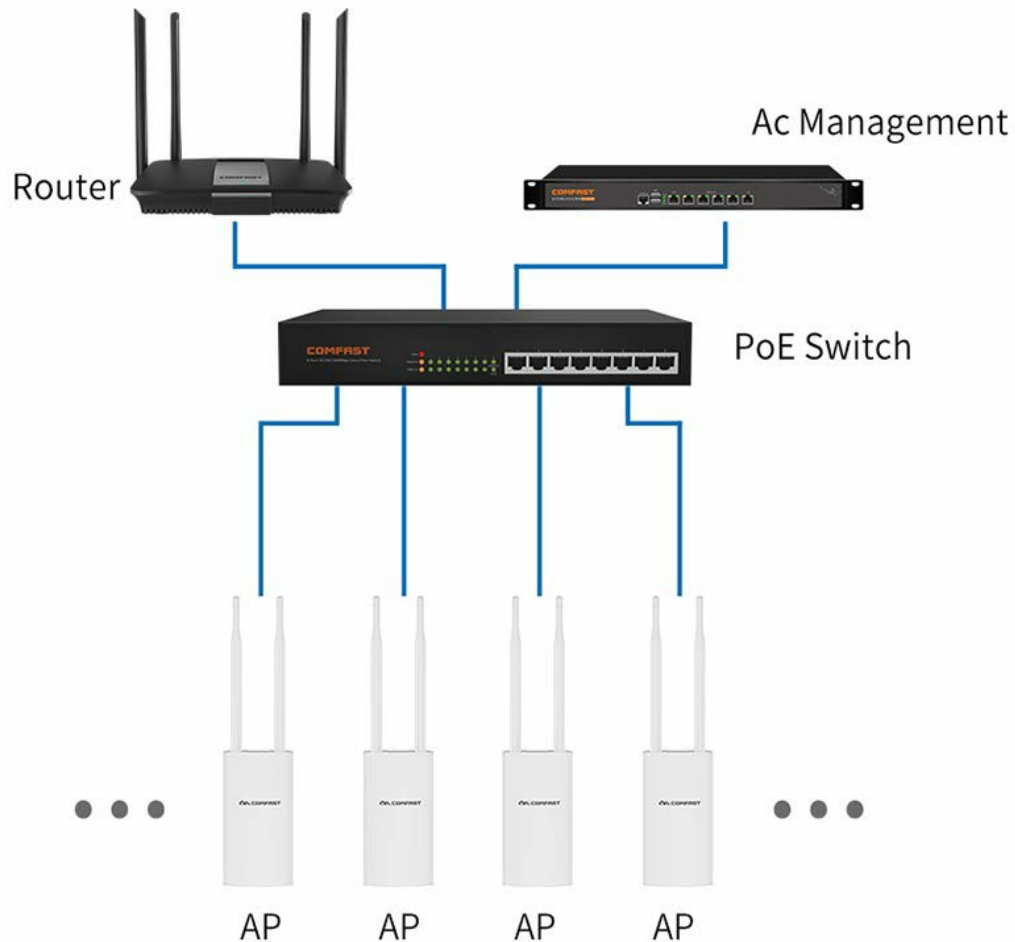Router

Ac Management

PoE Switch

AP AP AP AP

Image: A diagram demonstrating the Power over Ethernet (PoE) setup for the CF-EW71, showing how it connects to a PoE switch and router for simplified power and data delivery.

Image: A diagram illustrating the CF-EW71's automatic channel selection feature, which optimizes network stability by choosing the least congested channel in an outdoor environment.

Image: A diagram showing the centralized AC management system, allowing control of multiple CF-EW71 units from a single interface, ideal for large-scale Wi-Fi deployments.

3. TECHNICAL SPECIFICATIONS

Attribute	Value
Brand	Docooler
Model	CF-EW71
Wireless Rate	300Mbps
Frequency Band	2.4GHz
Main Chip	Qualcomm QCA9531
Power Amplifier	SE2576L

Attribute	Value
DDR Memory	64MB
Flash Memory	16MB
Antennas	2 * 5dBi external antennas
Antenna Standard	IEEE802.11b/g/n
Transmitting Power	500mW
Receiving Sensitivity	-96dBm
Working Frequency	2.412GHz-2.484GHz
Data Rate (11b)	1, 2, 5.5, 11Mbps
Data Rate (11g)	6, 9, 12, 18, 24, 36, 48, 54Mbps
Data Rate (11n)	MCS0-MCS15 (20MHz and 40MHz analog broadband) - 20MHz: 144.4Mbps, 40MHz: 300Mbps
Physical Interface	1*10/100Mbps WAN RJ45 (PoE), 1*10/100Mbps LAN RJ45 (PoE), 1*RESET button
Power Consumption	<8W
Protection Level	IP66 grade
Recommended Clients Capacity	50 sets (2.4GHz)
Product Dimensions	35.3 x 8.5 x 4.4 cm
Item Weight	260 g

4. SETUP GUIDE

4.1. Package Contents

Before proceeding with the installation, please verify that all items are present in your package:

- COMFAST CF-EW71 Wireless Router
- Power Adapter (if not using PoE)
- Ethernet Cable
- Mounting Kit (if applicable for outdoor installation)
- Quick Installation Guide

4.2. Physical Installation

The CF-EW71 is designed for outdoor deployment. Consider the following for optimal performance and safety:

1. **Site Selection:** Choose a location that provides clear line-of-sight to the desired coverage area, away from

obstructions like large metal structures or dense foliage. Ensure the location is within reach of your network infrastructure.

2. **Mounting:** Securely mount the device using the provided mounting kit. Ensure it is installed vertically with antennas pointing upwards for optimal omnidirectional coverage.

3. **Power Connection (PoE):** Connect an Ethernet cable from a PoE-enabled switch or PoE injector to the WAN/PoE port on the CF-EW71. This single cable will provide both power and data connectivity.

4. **Network Connection:** If not using PoE for data, connect an Ethernet cable from your network (router/switch) to the WAN port. The LAN port can be used to connect another wired device if needed.

5. **Antenna Installation:** Ensure the two external antennas are securely screwed into their respective connectors on the device.

4.3. Initial Configuration

After physical installation, you will need to configure the router via its web interface:

1. **Connect to the Device:** Connect your computer directly to the LAN port of the CF-EW71 using an Ethernet cable, or connect to its default Wi-Fi network (SSID and password usually found on a label on the device or in the Quick Installation Guide).

2. **Access Web Interface:** Open a web browser and enter the default IP address of the router (e.g., http://192.168.1.1 or as specified in the manual).

3. **Login:** Enter the default username and password (e.g., admin/admin). It is highly recommended to change these credentials immediately after the first login for security purposes.

4. **Basic Settings:** Follow the on-screen wizard or navigate to the wireless settings to configure your desired Wi-Fi network name (SSID) and password. Configure the WAN settings according to your internet service provider's requirements (e.g., DHCP, Static IP, PPPoE).

5. **Save and Reboot:** Save your settings and reboot the device if prompted.

5. OPERATING INSTRUCTIONS

5.1. LED Indicators

The CF-EW71 features LED indicators that provide information about its operational status:

- **Power LED:** Indicates if the device is powered on.
- **WAN LED:** Indicates activity on the WAN port.
- **LAN LED:** Indicates activity on the LAN port.
- **WLAN LED:** Indicates wireless network activity.

Refer to the Quick Installation Guide for specific LED behavior (e.g., solid, blinking) and their corresponding meanings.

5.2. Connecting Devices

Once the router is configured, devices can connect to its Wi-Fi network:

1. On your wireless device (smartphone, laptop, tablet), search for available Wi-Fi networks.

2. Select the SSID (network name) you configured for the CF-EW71.

3. Enter the Wi-Fi password (security key) when prompted.

4. Your device should now be connected to the internet through the CF-EW71.

5.3. Advanced Settings

The web interface provides access to advanced settings for network optimization:

- **Channel Selection:** The device can automatically select the best channel to avoid interference. Manual channel selection is also available for fine-tuning.
- **Client Management:** Monitor connected clients and manage their access.
- **Firmware Upgrade:** Regularly check for and install firmware updates to ensure optimal performance and security.
- **System Tools:** Access logs, backup/restore configurations, and perform reboots.

6. MAINTENANCE

To ensure the longevity and optimal performance of your COMFAST CF-EW71, regular maintenance is recommended:

- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure no dust or debris accumulates around the ports.
- **Firmware Updates:** Check the official Docooler/COMFAST website regularly for new firmware versions. Updating the firmware can improve performance, add new features, and fix security vulnerabilities.
- **Environmental Check:** Although the device is IP66 rated, periodically inspect its mounting and cables for any signs of wear, damage, or loose connections, especially after severe weather conditions.
- **Ventilation:** Ensure the device's ventilation areas are not blocked, even though it's an outdoor unit, proper airflow helps dissipate heat.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your CF-EW71 router.

Problem	Possible Cause	Solution
No Power / Power LED Off	No power supply or faulty power connection.	Ensure the PoE injector/switch is powered on and the Ethernet cable is securely connected to the WAN/PoE port. Check the power adapter if not using PoE.
No Wi-Fi Signal	Wi-Fi disabled, incorrect settings, or device malfunction.	Check the WLAN LED. Access the web interface to ensure Wi-Fi is enabled and configured correctly. Reboot the device.
Cannot Access Web Interface	Incorrect IP address, network configuration issue, or browser problem.	Verify your computer's IP address is in the same subnet as the router (e.g., 192.168.1.x). Try a different browser. Clear browser cache. Ensure direct connection to LAN port.
Slow Internet Connection	Interference, too many connected devices, or poor signal strength.	Check for sources of interference. Ensure the device is optimally placed. Limit the number of concurrent users if exceeding capacity. Consider changing the Wi-Fi channel in the settings.

Problem	Possible Cause	Solution
Forgot Login Password	Lost administrative credentials.	Perform a factory reset. Locate the RESET button (often a small pinhole) and press and hold it for 5-10 seconds while the device is powered on. This will revert all settings to factory defaults, including the login credentials.

8. WARRANTY AND SUPPORT

8.1. Warranty Information

Docooler products typically come with a limited manufacturer's warranty. The warranty period and terms may vary based on your region and point of purchase. Please retain your proof of purchase for warranty claims. For detailed warranty information, refer to the warranty card included with your product or visit the official Docooler/COMFAST website.
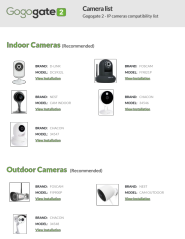
8.2. Customer Support

If you encounter issues that cannot be resolved using the troubleshooting guide, or if you require further assistance, please contact Docooler/COMFAST customer support. You can usually find contact information (phone numbers, email addresses, or support portals) on the manufacturer's official website or in the product packaging.
When contacting support, please be prepared to provide the following information:

- Product Model: CF-EW71
- Serial Number (if applicable, usually found on a label on the device)
- Date of Purchase
- A detailed description of the issue you are experiencing
- Any troubleshooting steps you have already attempted

Related Documents - LCMDOCOOLERC8298EUIN

[Wall Mountable Bluetooth CD Player User Manual - docooler KC-909](#)
Comprehensive user manual for the docooler KC-909 Wall Mountable Bluetooth CD Player. This guide provides detailed information on features, specifications, basic operation, installation, remote control usage, background light settings, time and timer functions, sleep mode, warnings, and troubleshooting.

AlphaTheta LIGHTING mode Available Fixture List **rekordbox**	[AlphaTheta rekordbox Lighting Fixture Compatibility List](#) Discover compatible lighting fixtures for AlphaTheta's rekordbox software. This comprehensive list details brands and models to enhance DJ lighting control and event production.
	[Gogogate 2 IP Camera Compatibility List](#) A comprehensive list of IP cameras compatible with the Gogogate 2 system, including brands, model numbers, and installation resources.
	[Gogogate 2 Camera List 2015: Verified and Non-Tested IP Cameras](#) Comprehensive list of compatible IP cameras for Gogogate 2 in 2015, including verified and non-tested models from various brands like D-Link, Foscam, Axis, and many more.