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› **EnGenius EAP350 N300 High-Power Wireless Gigabit Indoor Access Point User Manual**

EnGenius EAP350

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INTRODUCTION

This manual provides detailed instructions for the installation, configuration, and operation of the EnGenius EAP350 N300 High-Power Wireless Gigabit Indoor Access Point. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

1. PRODUCT OVERVIEW

The EnGenius EAP350 is a high-power wireless N access point designed for robust indoor wireless connectivity. It supports multiple operating modes including Access Point, WDS, and Repeater, offering flexibility for various network deployments. With its Gigabit Ethernet port and 802.11n standard, it delivers high-speed wireless performance.

Key Features:

- High-power, Long-range Wi-Fi for extended coverage.
- Up to 29dBm RF Tx power for enhanced signal strength.
- Wireless N (802.11n) standard delivers up to 300Mbps throughput.
- Gigabit Ethernet LAN interface for fast wired data transfer.
- Supports 802.1q mapping of SSIDs and up to four VLANs.
- Power-over-Ethernet (IEEE 802.3af) support for flexible deployment.
- Internal 5dBi antenna with optimized configuration.

Physical Appearance:

Figure 1: EnGenius EAP350 N300 Access Point. This image displays the top-down view of the white, circular access point with the EnGenius logo and model number EAP350 visible. LED indicators for wireless, LAN, and power are also present.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- EnGenius EAP350 High-power Wireless N Access Point
- Power Adapter (if not using PoE)
- Ethernet Cable
- Mounting Kit (screws, anchors)
- Quick Installation Guide

3. SETUP AND INSTALLATION

3.1 Mounting the Device

The EAP350 can be mounted on a ceiling or wall. Choose a central location for optimal wireless coverage. Use the provided mounting kit to secure the device.

1. Select a suitable mounting location.
2. Use the mounting bracket as a template to mark drill holes.
3. Drill holes and insert wall anchors if necessary.
4. Secure the mounting bracket to the surface.
5. Attach the EAP350 to the mounting bracket by twisting it into place.

3.2 Powering the Device

The EAP350 supports Power-over-Ethernet (PoE) IEEE 802.3af or can be powered by a standard power adapter.

- **PoE Connection:** Connect an Ethernet cable from a PoE-enabled switch or a PoE injector (e.g., EnGenius EPE5818Gaf) to the LAN port of the EAP350.
- **Power Adapter Connection:** If PoE is not available, connect the provided power adapter to the power input port on the EAP350 and plug it into a power outlet.

3.3 Initial Network Connection

Connect the EAP350 to your network using an Ethernet cable from its LAN port to your router or switch. Ensure the device powers on and the LED indicators illuminate correctly.

4. OPERATING MODES

The EAP350 can operate in several modes to suit different network requirements:

- **Access Point (AP) Mode:** The default mode, where the device acts as a central hub for wireless clients to connect to your wired network.
- **WDS (Wireless Distribution System) Mode:** Allows the EAP350 to wirelessly connect to other access points to extend the network without physical cabling. Can be configured as WDS AP, WDS Bridge, or WDS Station.
- **Repeater Mode:** Extends the range of an existing wireless network by re-transmitting the signal from another access point.

5. CONFIGURATION

5.1 Accessing the Web Interface

To configure the EAP350, access its web-based management interface:

1. Ensure your computer is connected to the same network as the EAP350.
2. Open a web browser and enter the default IP address (refer to the Quick Installation Guide or device label for the default IP, typically 192.168.1.1 or similar).
3. Enter the default username and password (e.g., admin/admin).

5.2 Basic Wireless Settings

Navigate to the Wireless settings section to configure your Wi-Fi network:

- **SSID:** Set your desired network name.
- **Security Mode:** Select WPA2-PSK (AES) for optimal security.
- **Pre-Shared Key:** Enter a strong password for your wireless network.
- **Operating Mode:** Select the desired mode (Access Point, WDS, Repeater).

5.3 Advanced Settings

The EAP350 offers advanced features such as VLAN tagging and Quality of Service (QoS) for network management. Refer to the full user manual for detailed instructions on these configurations.

5.4 Saving Configuration

After making any changes, ensure you save the configuration to the device's memory. Typically, there is a "Save" or "Apply" button within the web interface. Some devices may require a separate step to save the running configuration to the startup configuration.

6. MAINTENANCE

6.1 Firmware Updates

Regularly check the EnGenius website for firmware updates. Updating the firmware can improve performance, add new features, and address security vulnerabilities. Follow the instructions provided with the firmware update package carefully.

6.2 Resetting to Factory Defaults

If you encounter persistent issues or forget your login credentials, you can reset the device to its factory default settings. Locate the reset button (often a small pinhole) on the device. With the device powered on, press and hold the reset button for approximately 10-15 seconds until the LEDs indicate a reset.

6.3 Cleaning

Clean the device periodically with a soft, dry cloth. Do not use liquid cleaners or aerosols, as they may damage the device.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your EAP350.

- **No Power:**
    - Ensure the power adapter is securely connected to both the device and a working power outlet, or that the PoE source is active and connected to the LAN port.
    - Check the power LED indicator.

- **Cannot Connect to Wi-Fi:**
    - Verify the SSID and password are correct.
    - Check if the wireless function is enabled in the web interface.
    - Ensure your client device is within range.

- **Slow Wireless Speed:**
    - Check for interference from other wireless devices or networks.
    - Ensure the EAP350 is placed in an optimal location, away from obstructions.
    - Verify the wired connection speed to your router/switch.
    - Update firmware to the latest version.

- **Cannot Access Web Interface:**
    - Ensure your computer's IP address is in the same subnet as the EAP350.
    - Try clearing your browser's cache or using a different browser.

- If the IP address has been changed and forgotten, a factory reset may be necessary.

8. SPECIFICATIONS

Feature	Detail
Model Number	EAP350
Wireless Standard	802.11b/g/n
Frequency Band	Single-Band (2.4 GHz)
Max Wireless Speed	300 Mbps
Ethernet Port	1x Gigabit Ethernet (RJ-45)
PoE Support	IEEE 802.3af
Antenna	Internal 5dBi
RAM	32 MB
Flash Memory	4 MB
Dimensions (LxWxH)	4.73 x 4.73 x 1.97 inches
Item Weight	9.9 ounces
Operating System	EnGenius EnStation Cloud (Management)
Voltage	12 Volts (via power adapter)

9. WARRANTY INFORMATION

EnGenius products are covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official EnGenius website. Keep your proof of purchase for warranty claims.

10. TECHNICAL SUPPORT

If you require further assistance or encounter issues not covered in this manual, please contact EnGenius Technical Support. You can find contact information and additional resources, including FAQs and driver downloads, on the official EnGenius website:

Website: www.engeniustech.com/support

Please have your product model number (EAP350) and serial number ready when contacting support.