



## Installation Guide

### Allegro 500 and 510

#### Default Settings

LAN:	DHCP client	WiFi WPA2 key:	Allegro-MM
WiFi SSID:	allegro-mm-(see bottom label)	Web interface username:	admin
WiFi URL:	https://allegro/ or https://192.168.4.1	Web interface password:	allegro

#### Overview

This guide contains the following sections:

1. Package Contents
2. Hardware Deployment
3. Device Start
4. Management Interface Configuration
5. Configuration Reset
6. Firmware Update Notification
7. Factory Reset
8. Manual

### 1. Package Contents

The Allegro Network Multimeter package contains the following items:

- |  |                        |
|--|------------------------|
| 1 x Allegro 500 or 510                                     | 1 x Power supply       |
| 1 x WiFi management USB adapter<br>(already pre-installed) | 1 x Power cable        |
| 1 x WiFi 6e capture USB adapter                            | 1 x Installation guide |





## 2. Hardware Deployment

### 2.1 Management Access (Control Plane)

Step 1: Connect power supply

Step 2: Connect management LAN

Alternative: Insert WiFi management USB adapter into any of the USB ports



By default, for LAN, the device will query an IP address via DHCP dynamically from your network. For WiFi, by default the device will open an access point so smartphones, tablets, or laptops can connect to the access point and access the web interface.

In case WiFi access is not possible and no DHCP server exists, the LAN and WiFi settings can be configured from the boot menu. After booting, connect a USB keyboard and a monitor to one of the HDMI outputs, then press 'Tab'. This will show the management interface configuration menu where the LAN and WiFi settings can be made.

### 2.2 Network Measurement Installation (Data Plane)

The Allegro 500 / 510 analyzes all data traffic transmitted through all network interfaces. The Allegro 500 is equipped with four 10 / 100 / 1000Base-T capture ports, while the Allegro 510 is equipped with 10 / 100 / 1000Base-T and two 10 / 100 / 1000 / 2.5GBase-T capture ports. The appliance can be used in sink or bridge mode.

#### 2.2.1 Bridge Mode

The interface pairs 1 + 2 and 3 + 4 build Layer-2 bridges, sending all traffic to their corresponding interface.

**WARNING:** Bridge Mode is a software-only TAP and will not work in case of a device error or after power off.

#### 2.2.2 Sink Mode

Received packets will be processed but not forwarded. Connect the Allegro Network Multimeter to a hardware TAP by connecting both TAP interfaces to the device. Alternatively, a switch or router mirror port can be connected to any of the device network interfaces.

Default configuration is bridge mode, thus running as an inline device. The sink mode can be configured via the web interface (menu 'Settings' → 'Global settings').



- Generic <
- L2 - WiFi <
- L2 - Ethernet <
- L3 - IP <
- L4 - Transport <
- L7 - Application <
- Info <
- Settings >
- Global settings
- Module settings

## Global settings Manual

Generic settings
IPFIX settings
Time settings
Email notification
Memory extension
Expert settings

### Packet processing mode

**Mode:** Bridge mode

Available modes:

- Bridge mode: pairwise receive and transmit packets for operation in-line
- Sink mode: only receive packets on all interfaces, for operation behind a network tap, or on a mirror port of a switch
- Mixed bridge/sink mode: sink mode or bridge mode can be selected for each interface pair in the interface statistics

### 2.2.3 WiFi Capturing

To perform WiFi measurements, the WiFi 6e capture USB adapter needs to be connected to any USB 3.0 port of the Allegro Network Multimeter. Additional adapters can be connected via a USB 3.0 hub.



## 3. Device Start

1. Press the power button at the front of the device. The device will boot within two minutes.
2. Connect to the management interface:

Option A LAN access: The device gets its IP from the DHCP server in your network. Check the console output on an attached monitor or ask the server administrator for the IP of the device, then enter the IP into the URL bar of your web browser.

Option B WiFi access: The device sets up an access point. See the 'Default Settings' section for the SSID and WPA2 password to configure your WiFi connection and the WiFi URL you need to enter into the URL bar of your web browser.

3. Web interface authentication: Refer to the 'Default Settings' section for username and password.

## 4. Management Interface Configuration

You can configure the management interfaces by accessing the web interface at 'Settings → 'Management interfaces'. The options are described in the online manual accessible via the web interface.

## 5. Configuration Reset

The 'Configuration reset' restores the configuration to the default settings and can be executed as follows:

Option A Web interface: Go to menu 'Settings' → 'Administration' and click on 'Reset system configuration'. All settings including the network configuration will be reset to factory default.

Option B Boot menu: Follow the instructions in section 7. 'Factory reset'.



## 6. Firmware Update Notification

### Update Information via Email

With each release, Allegro Packets will send you an email with release notes and a link to download the update. If you want to be added to this mailing list, please send an email with your serial number ('Info' → 'System info' → 'System ID') to [support@allegro-packets.com](mailto:support@allegro-packets.com) and the subject 'Release'.

### Using the Allegro Web Interface

Start your Allegro Network Multimeter and click 'Settings' in the menu and then 'Firmware updates'. Click on 'Check for new firmware' and the Allegro Network Multimeter will tell you if a new version is available for download. If so, you can choose to download it directly to the device. In addition, this page provides an overview of all versions available to you. To install the new version, click on 'Activate'.

## 7. Factory Reset

The 'Factory reset' will clear the entire system installation and restore the firmware to the version that was originally shipped with the Allegro Network Multimeter.

1. Power off the Allegro 500 / 510.
2. Remove all network cables from the device.
3. Connect a monitor to one of the HDMI ports.
4. Connect a USB keyboard to any of the USB ports.
5. Power on the device by pressing the power button.
6. After initialization a boot menu appears. Select 'Factory reset' and press 'Enter'. Or select 'Configuration reset' to reset the configuration settings only while keeping the current firmware installation.
7. The device will boot, reset everything to factory settings, and reboot again.
8. The device is now reset to factory settings.
9. Disconnect the monitor and keyboard.

## 8. Manual

The device manual can be accessed from the web interface. Each web section contains a button to access the context-specific documentation. The complete manual can be opened by clicking on the 'Manual' link in the menu and then choosing the offline manual in the appliance or the online manual at: <https://allegro-packets.com/wiki>.

## Getting Help

Please send an email to [support@allegro-packets.com](mailto:support@allegro-packets.com) or call +49 341 59 16 43 54.