

MCR-AP19000 User Manual



1 Overview

This guide tells the user who purchased the MCR-AP19000 how to install the product and how to solve problems after installation.

Before handling this product, please read this manual carefully and follow the instructions to use the product properly.

In addition, after reading the manual, keep it well and make it available before and after installation and handling, and when the manager changes, be sure to give it to your successor manager so that you can use the product correctly.

※ The contents of this manual and illustrations are subject to change without notice.

※ The contents of this guide are protected by copyright law. Therefore, the contents of the guide can not be changed without permission.

※ Do not disassemble, repair or modify this product as it may cause personal injury and property damage due to electric shock, malfunction, malfunction, static electricity. If repair is required, please contact us.

1.1 Interface

Item	Feature
Platform	- CPU : MT7988A Quad-core 1.8GHz - Wireless : MT7976GN / MT7975AN / MT7976AN, 802.11a/b/g/n/ac/ax/be - Giga Switch : MT7988A 10/100/1000 Mbps Ethernet Transceiver - 10G PHY : AQR113C 100/1000/2500/10000 Mbps Ethernet Transceiver
Interface	- WAN : 100/1000/2500/10000 Base-TX 1port - LAN 1 : 100/1000/2500/10000 Base-TX 1port - LAN 2,3 : 10/100/1000 Base-TX 2port - WLAN : 802.11a/b/g/n/ac/ax/be
Operation Condition	- DC Power : 12V/4A - Operating Temperature : 0°C ~ +50°C - Surface Temperature : 45°C under (External temperature 25°C standard) - Humidity : 10% ~ 90%
Frequency	WiFi (802.11a/b/g/n/ac/ax) - 2.4GHz : 2412MHz ~ 2462MHz - 5GHz : 5180MHz ~ 5825MHz - 6GHz : 5925MHz ~ 7125MHz Bluetooth (BLE 5.0) - BLE: 2402-2480MHz
Bandwidth	- 2.4GHz : 20/40MHz - 5GHz : 20/40/80/160MHz - 6GHz : 20/40/80/160/320MHz
Memory	SDRAM : DDR4 2GB, Flash Memory 512MB
SIZE	TBD
Antenna	Tri band Internal Antenna 6 EA

2 Product Configuration

2.1 Appearance



2.2 LED

Item	Color	Status	Description
POWER	Yellow Green	On	Power on
		Off	Power off
WAN	Yellow Green	On	Cloud onboarding completed
		Off	Not connected, Before cloud onboarding
LAN	Yellow Green	On	Connected
		Off	Not connected
WiFi	Yellow Green	On	WiFi operating
		Off	WiFi off
WPS	Yellow Green + Blue	Blink	WPS operating
		Off	WPS off

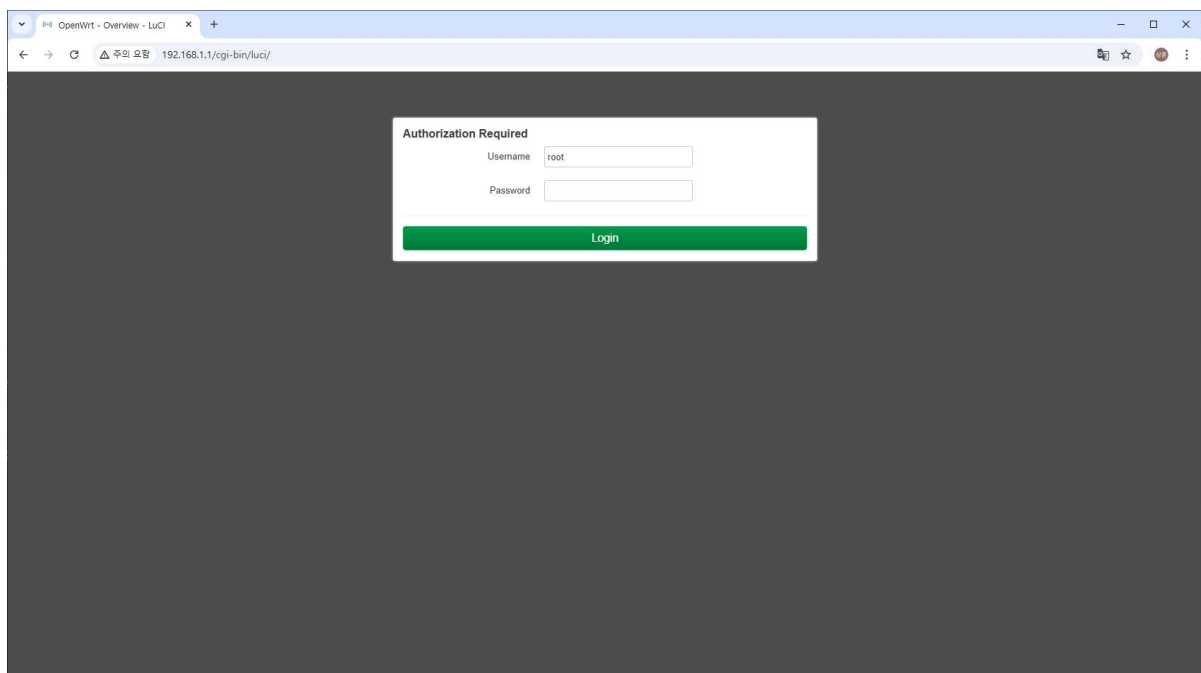
3 Web Setting

3.1 Login

Set your PC's IP to 192.168.1.x for device setup and connect the LAN Cable to the PC and the device's LAN ports.

Type `http://192.168.1.1` in the web browser and the screen below appears.

You can set the user password after entering it. (Username/Password : root/none)



3.2 System -> Backup / Flash Firmware

You can back up or upgrade firmware

The screenshot shows the OpenWrt web interface at the URL `192.168.1.1/cgi-bin/luci/admin/system/flash`. The page has a dark header with the OpenWrt logo and navigation links: Status, System, Services, Network, MTK, and Logout. A yellow banner at the top states "No password set! There is no password set on this router. Please configure a root password to protect the web interface." Below this, a dropdown menu is open, showing options: System, Administration, Software, Startup, Scheduled Tasks, Mount Points, Backup / Flash Firmware (highlighted), and Reboot. The main content area is titled "Flash operation" and has two tabs: "Actions" and "Configuration". Under "Actions", there are sections for "Backup" (with a "Generate archive" button), "Restore" (with "Perform reset" and "Upload archive..." buttons), and "Save mtblock contents" (with a "Save mtblock" button). A red box highlights the "Flash new firmware image" section, which includes the text "Upload a sysupgrade-compatible image here to replace the running firmware." and a "Flash image..." button. At the bottom, a footer indicates the page is powered by LuCI openwrt-21.02 branch (git-22.335.71649-0ecaf74) / OpenWrt 21.02-SNAPSHOT unknown.

3.3 Network -> Interfaces

You can change LAN and Internet connection settings.

The screenshot shows the OpenWrt web interface at the URL `192.168.1.1/cgi-bin/luci/admin/network/network`. The page has a dark header with the OpenWrt logo and navigation links: Status, System, Services, Network, MTK, and Logout. A yellow banner at the top states "No password set! There is no password set on this router. Please configure a root password to protect the web interface." Below this, a dropdown menu is open, showing options: Interfaces (highlighted), DHCP and DNS, Hostnames, Static Routes, Firewall, Diagnostics, and IP Security. The main content area is titled "Interfaces" and has three tabs: "Interfaces", "Devices", and "Global network options". Under "Interfaces", there are three interface cards: "LAN" (br-lan), "WAN" (eth1), and "WAN2" (eth1). Each card shows details like RX/TX statistics and protocol settings. At the bottom, there is an "Add new interface..." button and "Save & Apply", "Save", and "Reset" buttons. At the bottom, a footer indicates the page is powered by LuCI openwrt-21.02 branch (git-22.335.71649-0ecaf74) / OpenWrt 21.02-SNAPSHOT unknown.

4 FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Any changes or modifications to this device not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device should be installed and operated with minimum 20 cm between the radiator and your body.

The device user manual must contain the following information. The user manual must be filed as an exhibit in the application filing.

- FCC regulations restrict the operation of this device to indoor use only.
- The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet in the 5.925–6.425 GHz band.
- Operation of transmitters in the 5.925–7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.