

AL-820 Manuals

High Performance UHF RFID Reader

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1 Overview



Thank you for choosing the Arizon AL-820 UHF RFID Reader, this document will explain how to use this reader •

1. AL-820 Specification

System	
OS	Linux
CPU	ARM Cortex-A53 Quad-Core 1.8GHz + NPU
RAM	2GB
Interface	
Ethernet	10/100/1000 Base-Ethernet
Wi-Fi	802.11 b/g/n/ac
WWAN	-
USB 3.1 Host	2
USB HID	Yes
RF	
Air Interface Protocol	EPC Global UHF Class 1 Gen2 / ISO 18000-63
Frequency Range	920~928 MHz
Frequency Resolution	100KHz
TX Power	+1dBm~+31.5 dBm

Power Resolution	0.25dB
RX Sensitivity	-84 dBm
Antenna	4

GPIO

GPI	3 Input, 1.5V ~ 5V with Optical coupling
GPO	3 Output, Dry Connect with Optical coupling

External Storage

Micro-SD	1
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Power

DC In	+24V / 1A
Power on Ethernet	802.3at (25.5W)

Operating Environment

Operating Temperature	-20°C ~55°C
Storage Temperature	-20°C ~85°C
Operating Humidity	5% ~ 95%

Mechanical

Size (L*W*H)	232.2 * 135.1 * 41.3 mm
Weight	980g

Certification

Certification	-
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2 System requirements

To use the AL-820's URC Utility tool smoothly, make sure the main computer meets the following specifications :

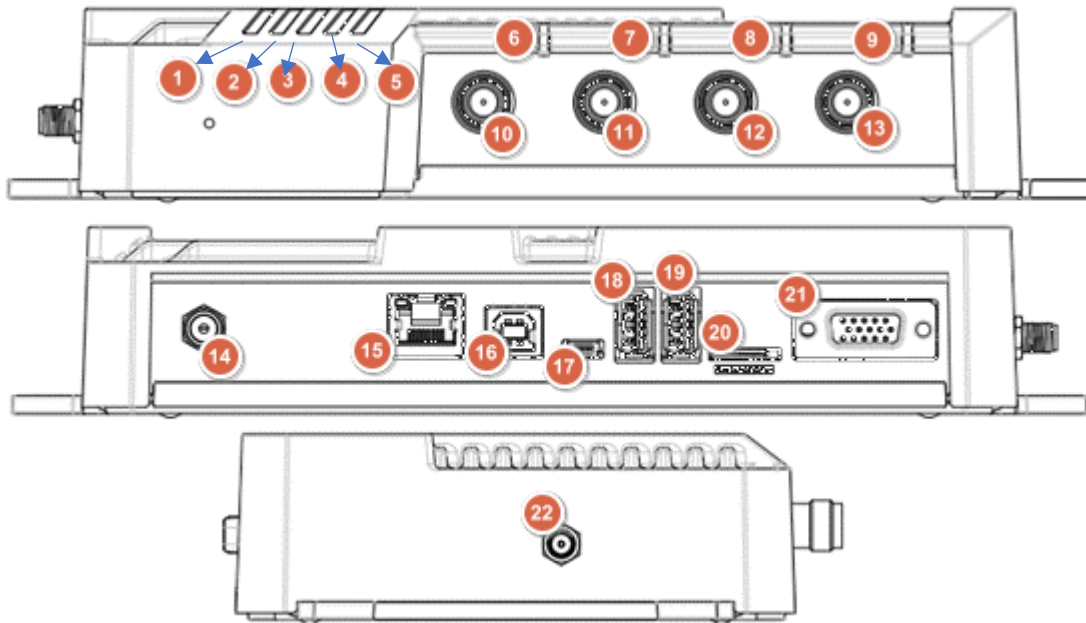
CPU : Intel Core i3 / AMD Ryzen 3

Memory : Up to 4GB

Hard disk free space : 30GB

Operating System : Windows 10/11

1. Appearance description



1. **Power indicator**– On indicates power and off indicates no power.
2. **System Status indicator**– Flashing green light that the system is powering on, and constant green light that the power-on is complete. A quick flash red light a restore to a preset value in progress, and a slow flash red light an update in progress.

(***Warning:** Do not turn off the power when this light is blinking!)
3. **RF Status indicator**– Standby mode when blinking slowly and RF signals being emitted when blinking fast.
4. **Wi-Fi indicator** – Illuminates to indicate that Wi-Fi is enabled, flashing indicates

that communication is in progress, and off indicates that Wi-Fi is disabled.

5. **Not use.**
6. **Antenna 1 indicator** – Green light is the port activity, Red light is the port error.
7. **Antenna 2 indicator** – Green light is the port activity, Red light is the port error.
8. **Antenna 3 indicator** – Green light is the port activity, Red light is the port error.
9. **Antenna 4 indicator** – Green light is the port activity, Red light is the port error.
10. **Antenna 1** – TNC connector with impedance 50Ω.
11. **Antenna 2** – TNC connector with impedance 50Ω.
12. **Antenna 3** – TNC connector with impedance 50Ω.
13. **Antenna 4** – TNC connector with impedance 50Ω.
14. **DC power JACK** – Input voltage 24V / 1.2A power supply.
15. **RJ-45 Ethernet** – Used to communicate with RFID function and supports 10/100Mbps twisted pair network cables above Cat.5E. Support Power on Ethernet(PoE) 802.3at
16. **USB Device**– For RFID function communication, using a HID interface.
17. **Console** – The internal Linux system can be operated using TTY.
18. **USB Host**– Can be connected to usb stickers, VCP, 4G LTE Dongle and more.
19. **USB Host**– Can be connected to usb stickers, VCP, 4G LTE Dongle and more.

- 20. **Micro SD** – supports S DHC up to 64GB.
- 21. **GPIO D-SUB**– Connect to an external GPIO control box for use.
- 22. **Wi-Fi Antenna** – Connects an SMA specification 2.4GHz antenna.

3 Connect to the AL-820

AL-820 default built-in DHCP server, the computer please keep the network adapter settings automatically get DHCP, the following figure is Windows 10 network interface settings.



The default IP address and web login information for the AL-820 are as follows :

URL : <https://192.168.50.1/>

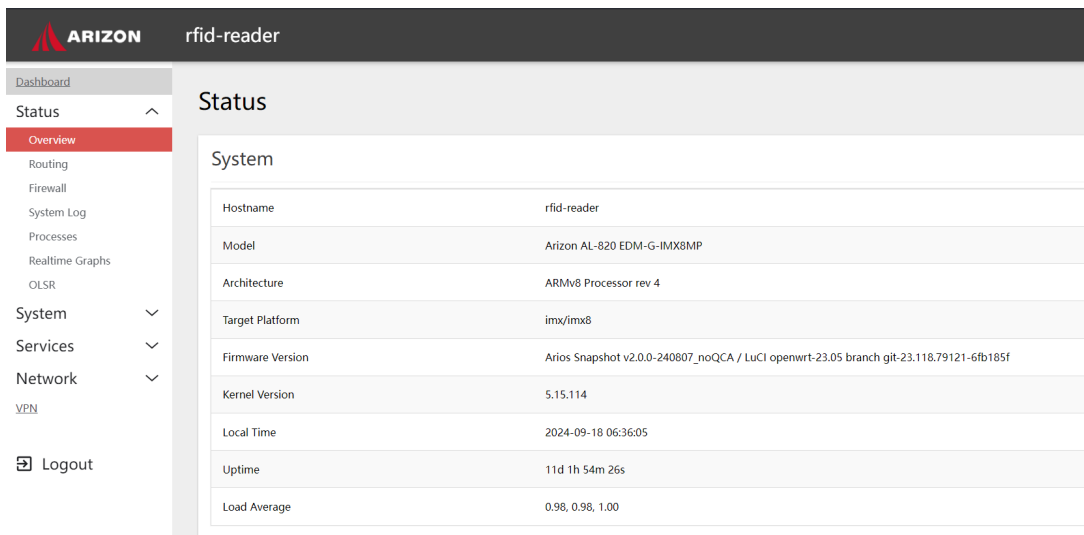
IP 位址 : 192.168.50.1

User account : root

Password : 123456

4 Web control panel

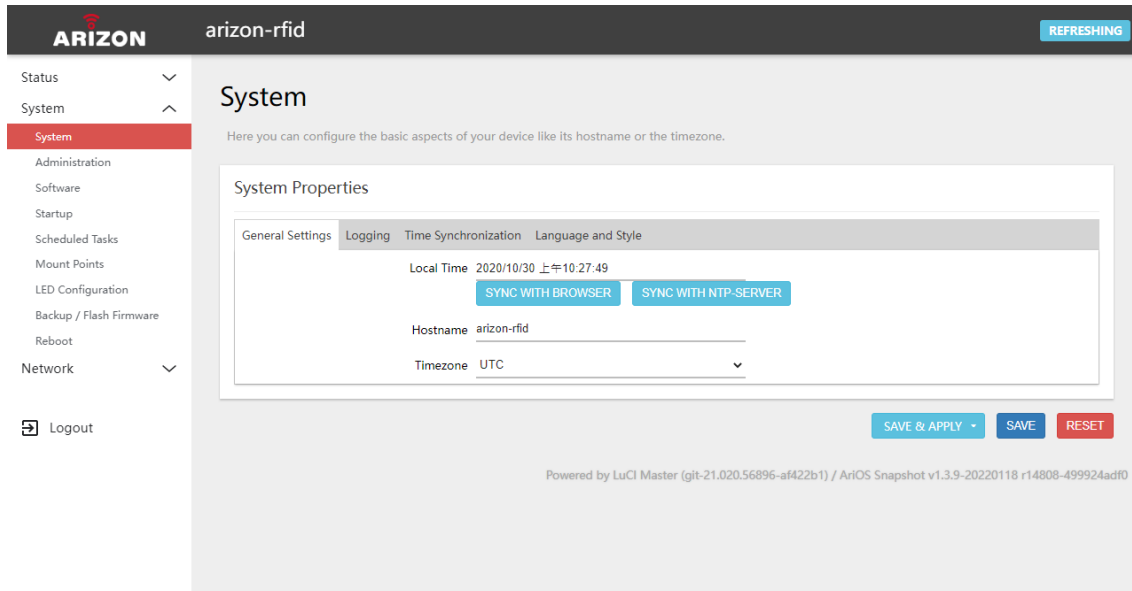
The AL-820 web control panel provides network settings, firmware updates, system settings, time and date settings, etc. (please use URC Utility for RFID operations).



The screenshot displays the ARIZON rfid-reader web control panel. The left sidebar contains a navigation menu with the following items: Dashboard, Status (expanded), Overview (highlighted), Routing, Firewall, System Log, Processes, Realtime Graphs, OLSR, System, Services, Network, and VPN. A Logout button is located at the bottom of the sidebar. The main content area is titled 'Status' and features a 'System' section with a table of system information.

System	
Hostname	rfid-reader
Model	Arizon AL-820 EDM-G-IMX8MP
Architecture	ARMv8 Processor rev 4
Target Platform	imx/imx8
Firmware Version	Arios Snapshot v2.0.0-240807_noQCA / LuCI openwrt-23.05 branch git-23.118.79121-6fb185f
Kernel Version	5.15.114
Local Time	2024-09-18 06:36:05
Uptime	11d 1h 54m 26s
Load Average	0.98, 0.98, 1.00

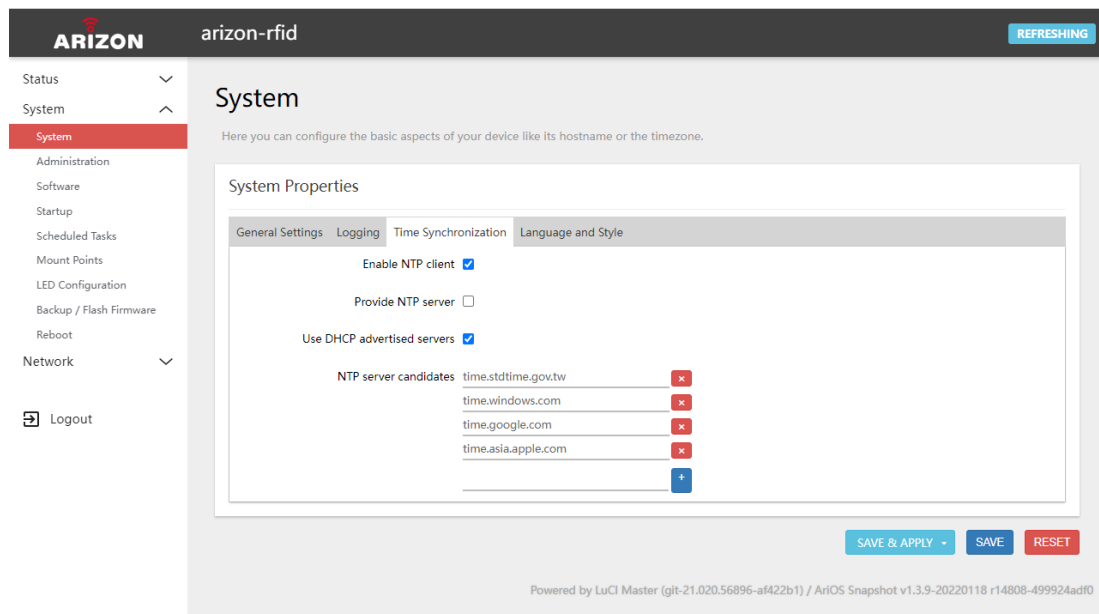
5. Time Setting



1. Log in to the web control panel.
2. Click the **System** tab in the left menu.
3. Select **System**.
4. For **the general date and time** setting in the **system properties**, you can choose the following two setting methods:
 1. **Synchronize time with the browser (computer).**
 2. **Synchronize time** with NTP server (AL-820 requires a connection to the network).
5. Select the **time zone** you want.
6. Press **Save and Apply** Settings.

6. NTP Setting

NTP (Network Time Protocol) can be used to automatically synchronize time with the server.



1. Log in to the web control panel.
2. Click the **System** tab in the left menu.
3. Select **System**.
4. Click the **Time Synchronization** tab.
5. Tick **Enable NTP Client**.

(*To use the local area network automatically, select a server that uses
DHCP advertising)

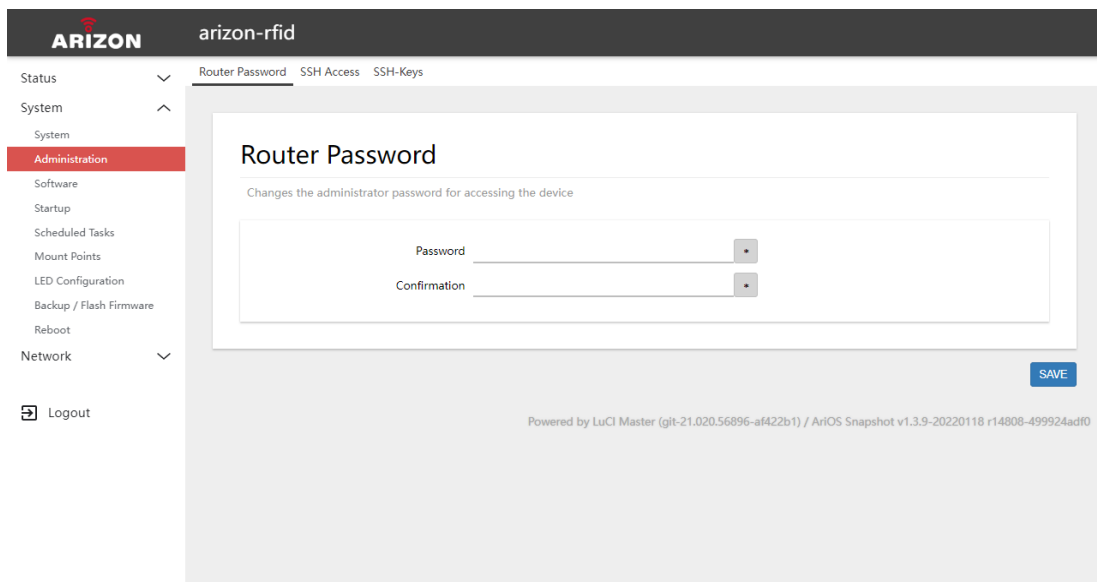
6. In **Alternate NTP Server**, enter a list of destination servers that you want to

synchronize °

7. Press **Save** and **Apply** Settings.

7. Set the account password

Changing the default account password prevents unauthorized modification of device settings.

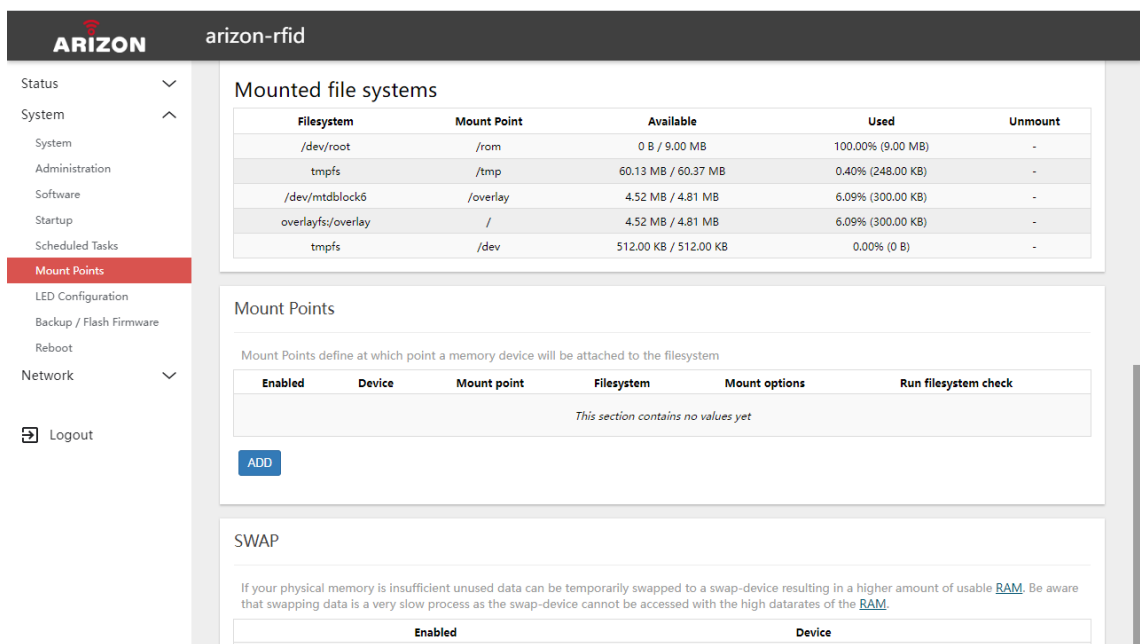


The screenshot shows the ARIZON RFID web control panel. The top header includes the ARIZON logo and the text 'arizon-rfid'. Below the header, there is a navigation menu on the left with options: Status, System, Administration (highlighted in red), Software, Startup, Scheduled Tasks, Mount Points, LED Configuration, Backup / Flash Firmware, Reboot, Network, and Logout. The main content area is titled 'Router Password' and contains a form with two input fields: 'Password' and 'Confirmation'. A 'SAVE' button is located at the bottom right of the form. The footer of the page indicates it is powered by LuCI Master and provides version information.

8. Log in to the web control panel.
9. Click the **System** tab in the left menu.
10. Select **Administration**.
11. In Router Password, enter the new password
12. Press **Save** and **Apply** Settings.

8. Mount a USB storage device and Micro-SD card

The AL-820 supports connecting external storage space from a USB storage device or Micro-SD slot, and the following explains how to attach storage to an internal archive system.



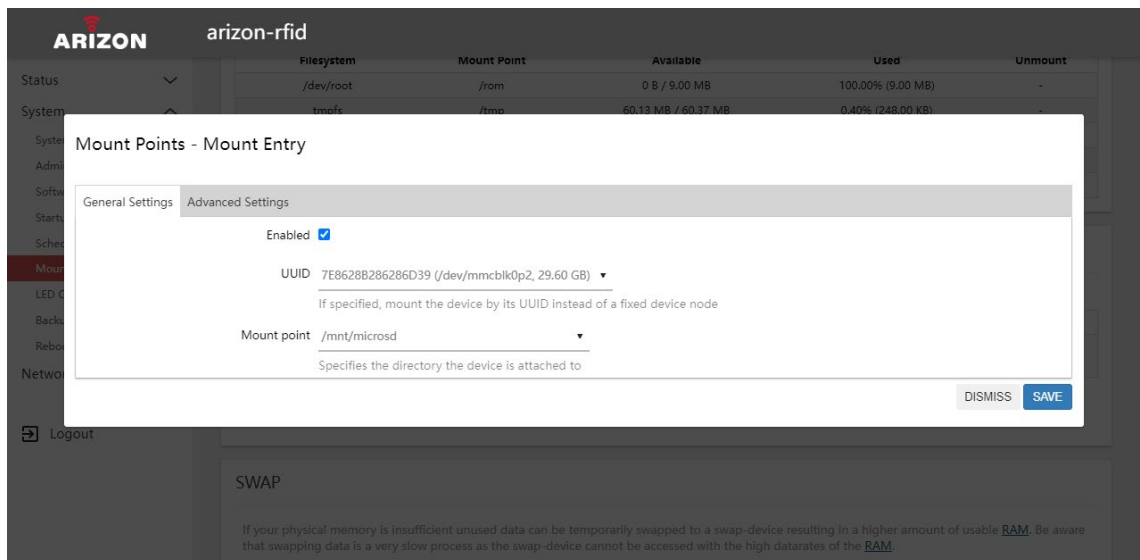
The screenshot shows the 'arizon-rfid' web interface. On the left is a navigation menu with options: Status, System, Administration, Software, Startup, Scheduled Tasks, **Mount Points** (highlighted), LED Configuration, Backup / Flash Firmware, Reboot, Network, and Logout. The main content area is titled 'Mounted file systems' and contains a table with the following data:

Filesystem	Mount Point	Available	Used	Unmount
/dev/root	/rom	0 B / 9.00 MB	100.00% (9.00 MB)	-
tmpfs	/tmp	60.13 MB / 60.37 MB	0.40% (248.00 KB)	-
/dev/mtdblock6	/overlay	4.52 MB / 4.81 MB	6.09% (300.00 KB)	-
overlayfs/overlay	/	4.52 MB / 4.81 MB	6.09% (300.00 KB)	-
tmpfs	/dev	512.00 KB / 512.00 KB	0.00% (0 B)	-

Below the table is the 'Mount Points' section, which includes a description: 'Mount Points define at which point a memory device will be attached to the filesystem'. It contains a table with headers: Enabled, Device, Mount point, Filesystem, Mount options, and Run filesystem check. The table is currently empty with the message 'This section contains no values yet'. There is an 'ADD' button below the table. At the bottom, there is a 'SWAP' section with a description: 'If your physical memory is insufficient unused data can be temporarily swapped to a swap-device resulting in a higher amount of usable RAM. Be aware that swapping data is a very slow process as the swap-device cannot be accessed with the high data rates of the RAM.' It also has a table with headers: Enabled and Device.

1. Plug in a USB storage device or Micro-SD memory
2. Log in to the web page background.
3. Click the **System** tab in the left menu.
4. Select **Mount points**.
5. In **Mount Points**, click **Add New**.
13. After the Enable check box is selected, select the corresponding disk area from the device universal unique identification code **UUID**.

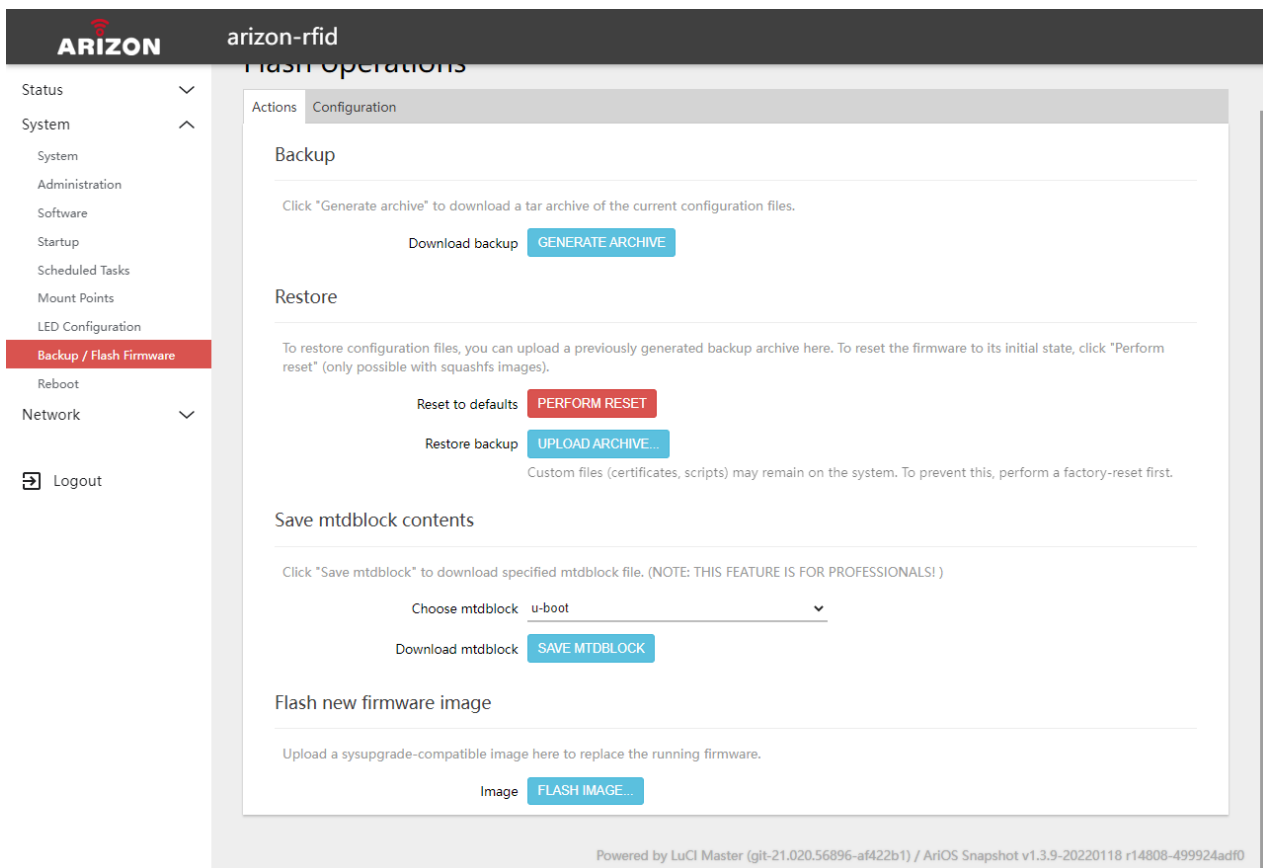
(MicroSD is usually /dev/mmcblk0p[N], where [N] is the disk number of the memory card, the example in the picture is mmcblk0p2.)



14. Select Custom at the mount point, enter /mnt/[Custom Name], and press **Save**.
15. After pressing **Save** and **Apply**, it takes effect immediately.

9. Upgrades the firmware

In order to ensure system stability and introduce new features, new versions of the firmware will be released from time to time.



1. Log in to the web page background.
2. Click the **System** tab in the left menu.
3. Select **Backup/Flash Firmware**.
4. In **Flash new firmware image**, click **Flash Image File**.
5. Press **Browse** to select the image file and click Upload.

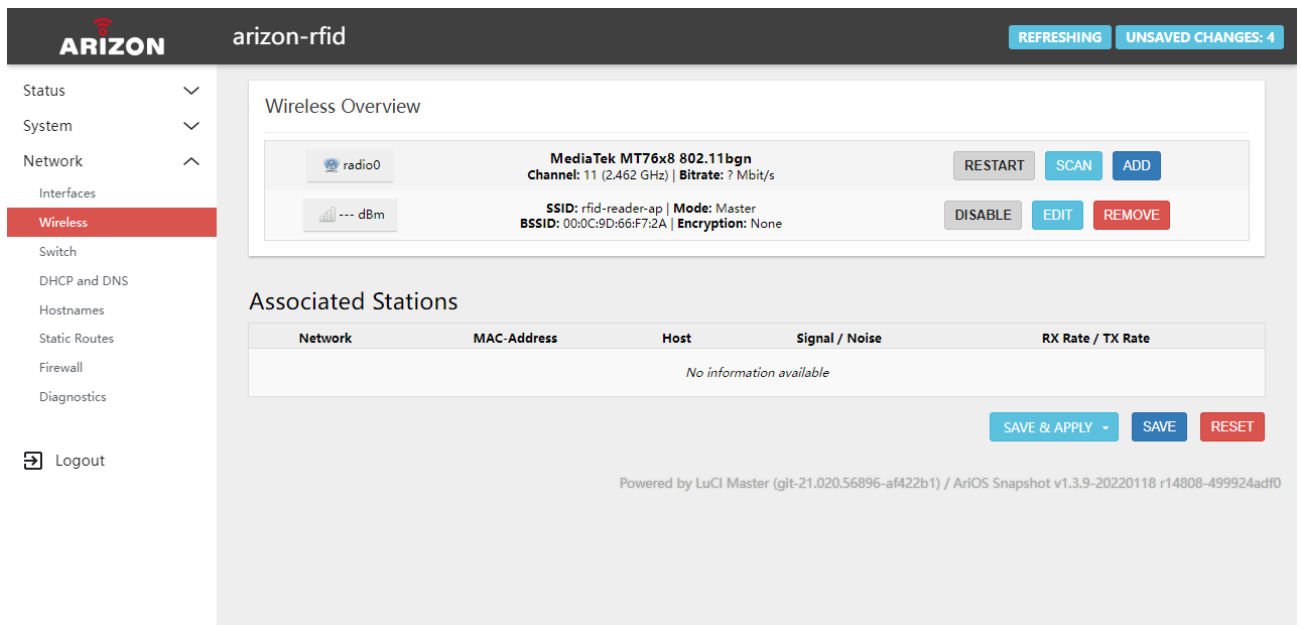


6. Follow the on-screen instructions to continue with the update, and do not interrupt the power supply during the update, otherwise it will cause

damage to the firmware.

10. Set Wi-Fi to client mode

The AL-820 supports 802.11 b/g/n wireless networks, the default is access point mode to accept connections from other computers, you can switch the AL-820 to client mode and connect to other networks.



The screenshot shows the ARIZON RFID web control panel. The left sidebar contains a menu with options: Status, System, Network, Interfaces, **Wireless** (highlighted), Switch, DHCP and DNS, Hostnames, Static Routes, Firewall, and Diagnostics. A Logout button is at the bottom of the sidebar. The main content area is titled 'Wireless Overview' and displays information for the 'radio0' interface. It shows the chipset as 'MediaTek MT76x8 802.11bgn', channel as '11 (2.462 GHz)', and bitrate as '? Mbit/s'. Below this, it shows the SSID as 'rfid-reader-ap', mode as 'Master', BSSID as '00:0C:9D:66:F7:2A', and encryption as 'None'. There are buttons for 'RESTART', 'SCAN', 'ADD', 'DISABLE', 'EDIT', and 'REMOVE'. Below the overview is an 'Associated Stations' table with columns: Network, MAC-Address, Host, Signal / Noise, and RX Rate / TX Rate. The table currently shows 'No information available'. At the bottom right of the main area are buttons for 'SAVE & APPLY', 'SAVE', and 'RESET'. The footer of the page indicates it is powered by LuCI Master (git-21.020.56896-af422b1) / AriOS Snapshot v1.3.9-20220118 r14808-499924adf0.

1. Log in to the web control panel.
2. Click on the **Network** tab in the left menu.
3. Select **Wireless**.
4. In the **Wireless Overview**, click **Scan**.
5. Press Join Network in the network you want to connect to.

Join Network: Wireless Scan

Signal	SSID	Channel	Mode	BSSID	Encryption	
-80 dBm		8	Master	1A:59:C0:44:62:26	WPA2 PSK (CCMP)	JOIN NETWORK
-80 dBm	hidden	8	Master	1E:59:C0:44:62:26	WPA2 PSK (CCMP)	JOIN NETWORK
-83 dBm		8	Master	02:0C:9D:C1:A5:2C	None	JOIN NETWORK
-83 dBm	hidden	9	Master	8A:07:B6:C6:26:9D	WPA2 PSK (CCMP)	JOIN NETWORK
-84 dBm		9	Master	D8:07:B6:C6:26:9B	WPA2 PSK (CCMP)	JOIN NETWORK
-93 dBm	hidden	8	Master	1E:59:C0:45:B1:51	WPA2 PSK (CCMP)	JOIN NETWORK

6. Enter your **network password** and click Submit.

Joining Network: "ARIZON ORBI"

Replace wireless configuration ☒ Check this option to delete the existing networks from this radio.

Name of the new network The allowed characters are: A-Z, a-z, 0-9 and _

WPA passphrase Specify the secret encryption key here.

Lock to BSSID ☐ Instead of joining any network with a matching SSID, only connect to the BSSID 1A:59:C0:44:62:26.

Create / Assign firewall-zone Choose the firewall zone you want to assign to this interface. Select *unspecified* to remove the interface from the associated zone or fill out the *custom* field to define a new zone and attach the interface to it.

CANCEL SUBMIT

7. The details window appears, if you do not need to change other options, please click **Save** directly.

General Setup Advanced Settings

Status **Mode: Client | SSID: ARIZON ORBI**
 ... dBm *Wireless is not associated*

Wireless network is enabled **DISABLE**

Operating frequency Mode Channel Width
 N 11 (2462 Mhz) 20 MHz

Allow legacy 802.11b rates ☐ Legacy or badly behaving devices may require legacy 802.11b rates to interoperate. Airtime efficiency may be significantly reduced where these are used. It is recommended to not allow 802.11b rates where possible.

Maximum transmit power driver default - Current power: unknown Specifies the maximum transmit power the wireless radio may use. Depending on regulatory requirements and wireless usage, the actual transmit power may be reduced by the driver.

Interface Configuration

General Setup Wireless Security Advanced Settings

Mode Client

ESSID

BSSID

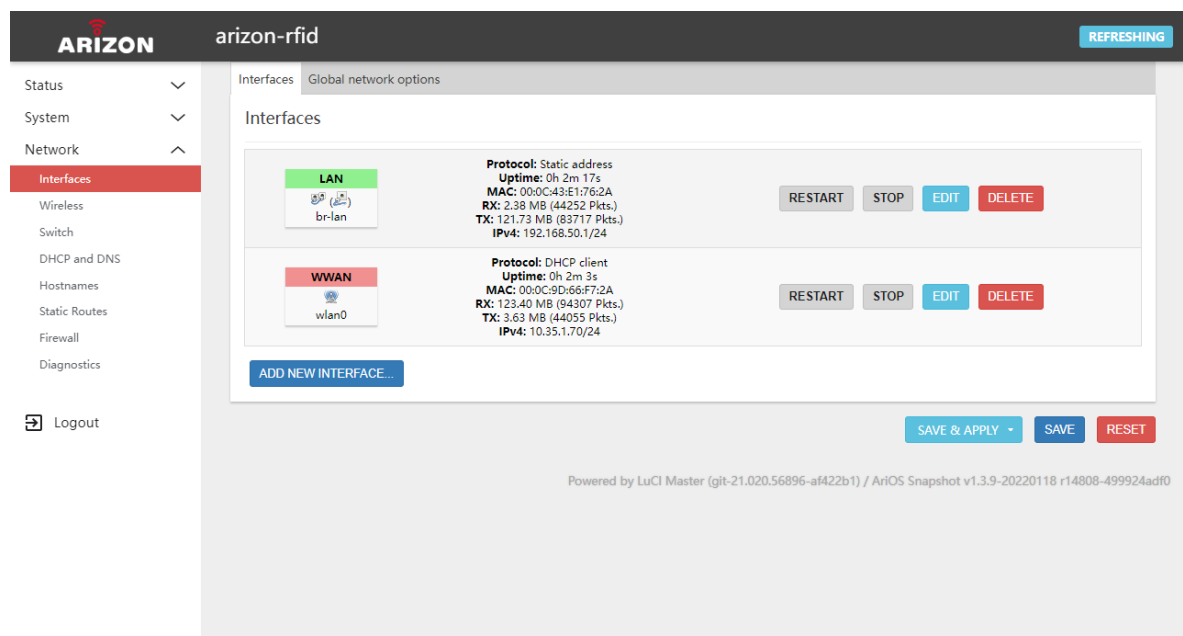
Network wwan

Choose the network(s) you want to attach to this wireless interface or fill out the *custom* field to define a new network.

8. After clicking Save and Apply, wait about 80 seconds for it to take effect.

11. Set up Ethernet

The AL-820 has a full-duplex 10/100Mbps Ethernet jack, the default IP address is 192.168.50.1 and the DHCP server is enabled, you can change the settings as needed.



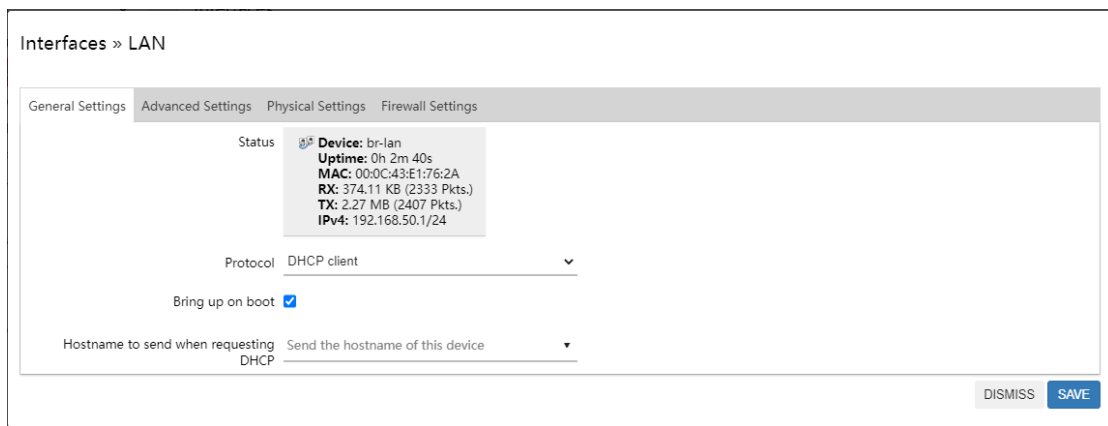
Please follow the instructions below to reach this page first:

1. Log in to the web page background.
2. Click on the **Network** tab in the left menu.
3. Select **Interfaces**.

A. Change to automatically obtain the IP location (the DHCP server will be

deactivated) :

1. Click **Edit** at **LAN**.
2. In the General Settings tab, change the **protocol** to **DHCP Client**.
3. Click **Switch Protocol** to refresh the screen to the corresponding setting parameters.



Interfaces » LAN

General Settings | Advanced Settings | Physical Settings | Firewall Settings

Status  Device: br-lan
Uptime: 0h 2m 40s
MAC: 00:0C:43:E1:76:2A
RX: 374,11 KB (2333 Pkts.)
TX: 2.27 MB (2407 Pkts.)
IPv4: 192.168.50.1/24

Protocol DHCP client ▼

Bring up on boot ☒

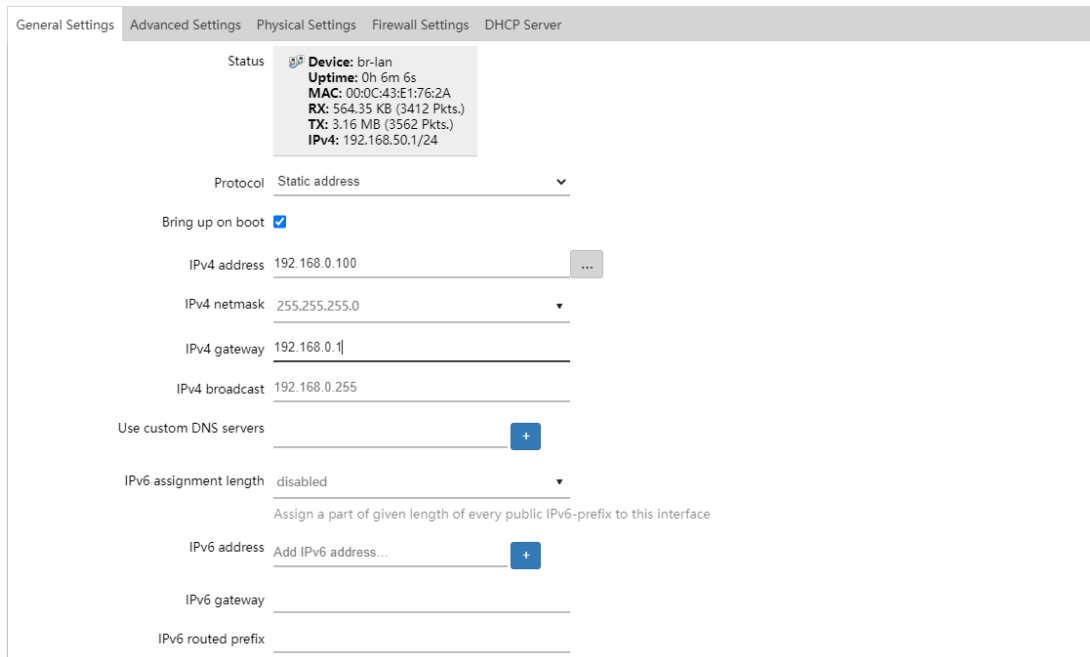
Hostname to send when requesting DHCP Send the hostname of this device ▼

DISMISS SAVE

1. Click **Save**.
2. Click **Save** and **Apply** to make the settings take effect.

B. Change static IP and disable DHCP server

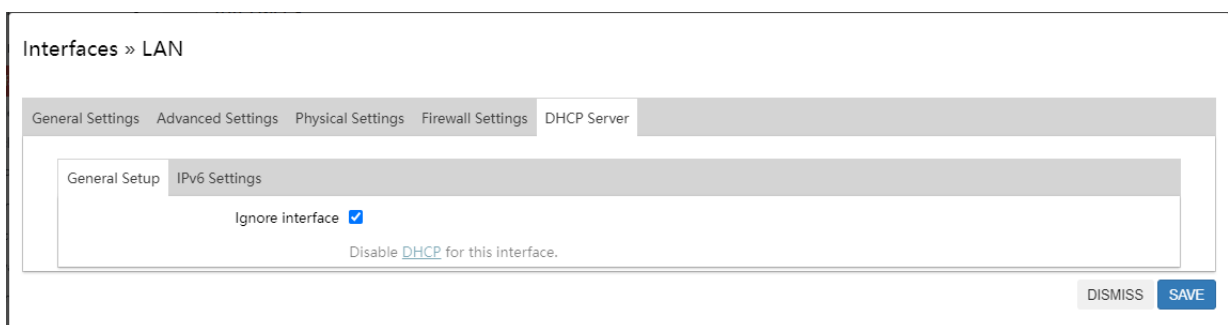
1. Click **Edit** on **LAN**.
2. In the general settings tab, change the **protocol** to **static address**.
3. Click **Switch Protocol** to refresh the screen to the corresponding setting parameters.
4. Please enter the parameters you want to change, such as the IPv4/v6 address, IPv4 gateway, etc.



5. Please click the **DHCP Server** tab.

6. On the **General Settings** tab, select **Ignore Interfaces** and check this interface.

(*This setting will disable the DHCP server, if you want the AL-820 to assign an IP address, please uncheck it)

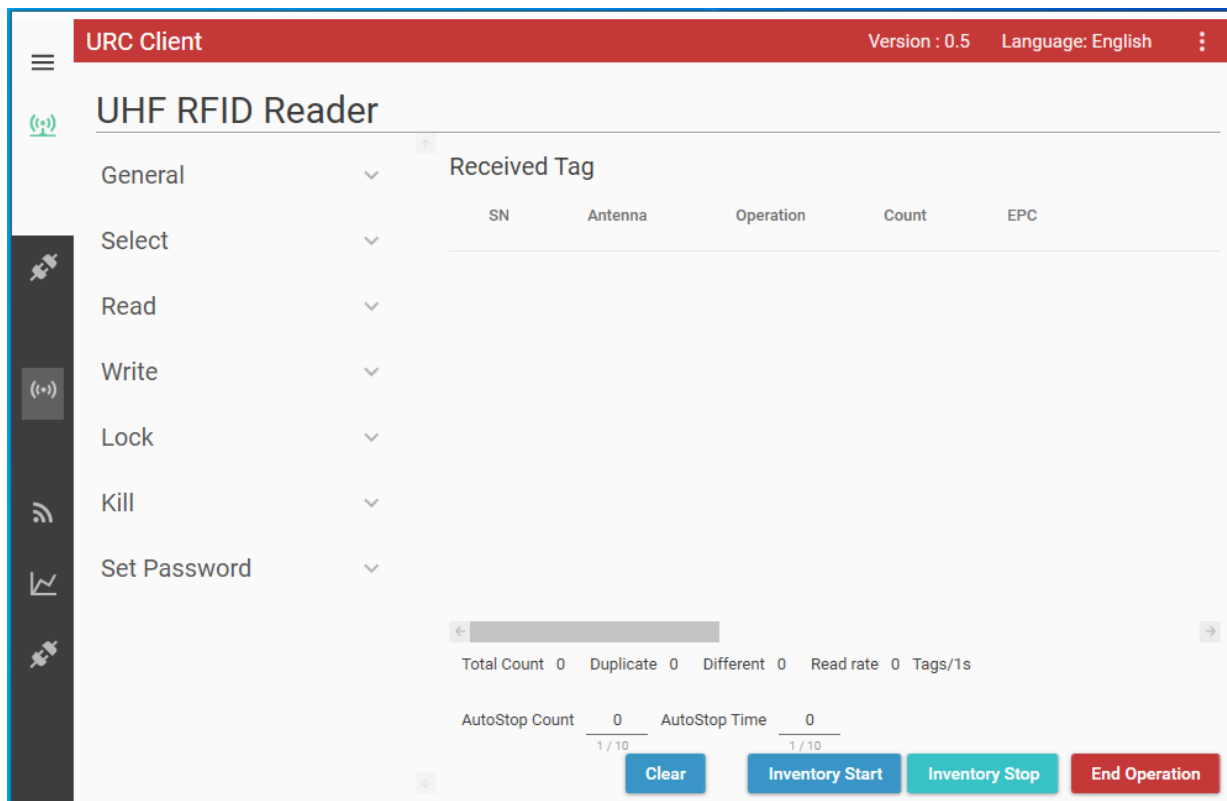


7. Click **Save**.

8. Click **Save and Apply** to make the settings take effect.

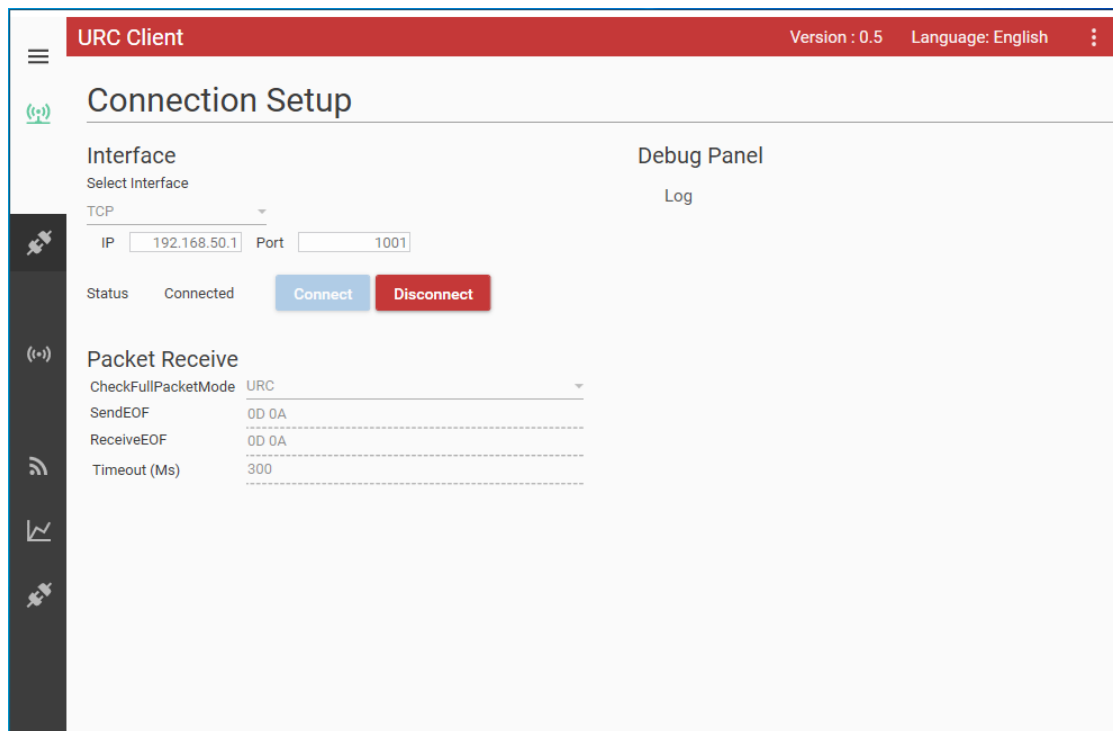
12 URC UtilityBasic Instructions for Use

URC Utility is a utility released by Arizon for new readers, which can be used to configure and operate RFID functions



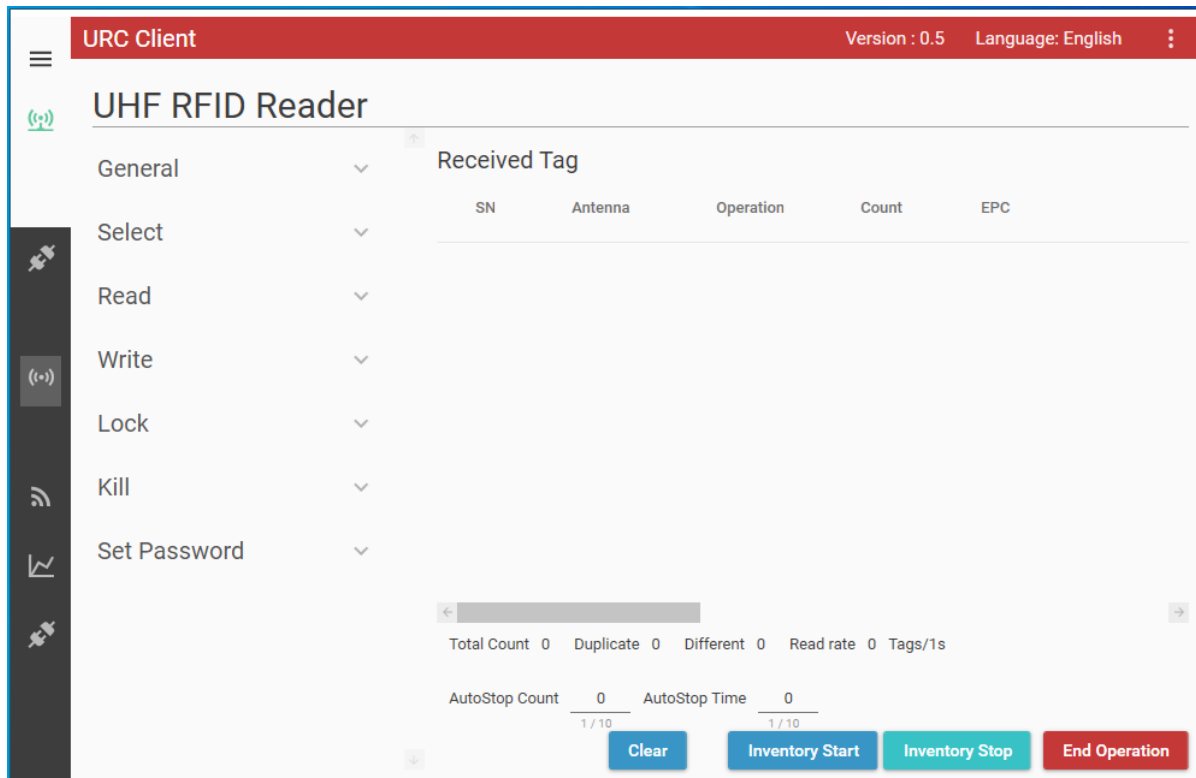
13. Connecting to the device

Connect to AL-820 or other Reader that supports URC function



1. Please select Connection on the left menu
2. Enter the IP Address of the device and the port number (the default is 192.168.50.1, and the port is 1001).
3. Press Connect, when the status displays Connected, it means the connection is successful.

14. UHF RFID Reader



The function of this area is the operation area of the ISO18000-63 (EPCglobal Class1 Gen2) standard function, which is mainly divided into the following functions:

- Inventory
- Select
- Read
- Write
- Lock
- Kill

15. Inventory

接收標籤

序	天線	操作	數量	EPC
1	1	None	86	E200-001C-1107-0095-0310-3F23
2	1	None	162	E200-001C-1107-0184-0240-9DF0
3	1	None	330	E200-001C-1107-0135-0200-69BF
4	1	None	144	E200-001C-1107-0086-0310-370F
5	1	None	108	E200-001C-1107-0144-0210-7240
6	1	None	144	E200-001C-1107-0186-0250-A681
7	1	None	305	E200-001C-1107-0195-0250-AF25
8	1	None	110	FFF-FFFF-FFFF-FFFF-3132-3232-3435-363
9	1	None	174	E200-001C-1107-0167-0250-8CCB
10	1	None	174	E200-001C-1107-0166-0250-8C6F
11	1	None	53	E200-001C-1107-0098-0320-4715
12	1	None	238	E200-001C-1107-0188-0250-A682
13	1	None	48	E200-001C-1107-0184-0200-9E00
14	1	None	189	E200-001C-1107-0153-0250-7B4C
15	1	None	358	E200-001C-1107-0196-0250-AFF6

總數量 15072 重複 134 未重複 136 讀取速率 89 標籤/秒

自動停止數量 1 / 10 自動停止時間 1 / 10

清除 盤點開始 盤點停止 終止操作

The values of the status bar represent the following meanings:

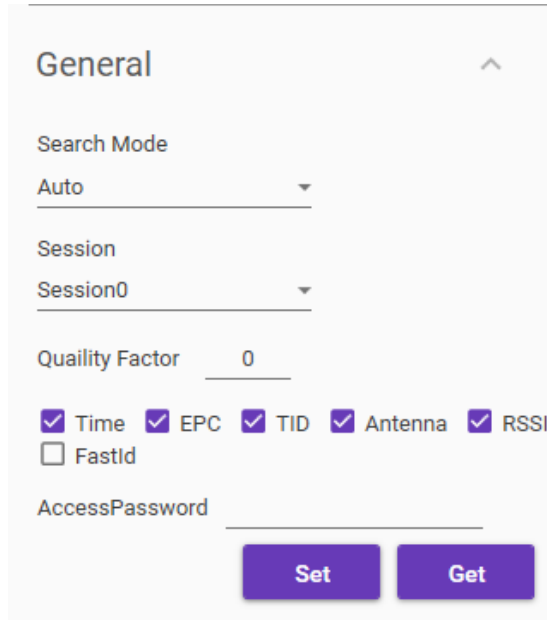
- **Total Count:** The total number of tags received.
- **Duplicate:** The number of duplicates received for labels.
- **Different:** The number of tags received that were not duplicated.
- **Read rate:** The read rate of tags per second, repetitions will also be included in the calculation.

- **AutoStop Count:** the number of auto-stops after starting the inventory. When it is set to 0, this function will be disabled.
- **AutoStop Time:** The time for auto-stop after starting the inventory, in seconds, when it is set to 0, this function will be disabled.

The operation button area has the following functions:

- **Clear:** Clears the currently received tag screen.
- **Inventory start:** start the inventory, and automatically stop according to the automatic stop condition (if it is 0, it will not stop).
- **Inventory Stop:** stop the inventory.
- **End Operation:** When performing write, read, and kill operations, use this button to terminate the operation, otherwise the last operation will be maintained when the inventory is started next time.

16. General options



The screenshot shows a 'General' configuration window with the following fields and options:

- Search Mode:** A dropdown menu currently set to 'Auto'.
- Session:** A dropdown menu currently set to 'Session0'.
- Quality Factor:** A text input field with the value '0'.
- Checkboxes:** Five checkboxes are checked: 'Time', 'EPC', 'TID', 'Antenna', and 'RSSI'. One checkbox, 'FastId', is unchecked.
- AccessPassword:** A text input field.
- Buttons:** Two purple buttons labeled 'Set' and 'Get' are located at the bottom right.

- **Search Mode:** Specify the received tag flag and tag mode. Currently, the modes supported by AL-820 are as follows:
 1. Auto : automatic mode.
 2. Dual Target : A and B flags are read.
 3. Single A to B : Read the A flag and flip the tag to the B flag.
 4. Single B to A : Read the B flag and flip the tag to the A flag.
- **Session :** Set the interval between tag flipping after data exchange between tag and reader. For details, please refer to EPCglobal Class1 Gen2 standard agreement.
- **Quality factor:** The reference value of tag anti-collision, it is recommended to input the actual possible reading quantity of the application.

- **Report content:** You can choose the tag content reported by the reader, which will affect the packet size of data transmission °
- **Access Password :** Some tags may be locked, and Access Password is required for access. The content used in this area is a hexadecimal value. For details, please refer to the EPCglobal Class1 Gen2 standard agreement.

17. Select

Select

Select Profile

Temporarily

Select Mode

EndSelect

Select Bank

Reverse

Select Flag

S0

Select動作

ASLINVA_DSLINVB

Mask(HEX)

123456789ABCDEF

Start Address(HEX)

0

Set

Get

Available options:

- **Select profile:** Divided into Temporarily and Permanent
- **Select Mode :** Determines the type of tags reported by the reader, divided into Not

Select, Select and End Select.

- **Select Bank:** Specify the selection block to be labeled, usually using EPC or TID as the selection criteria.
- **Select Flag:** Specifies the target tag flag to be selected. The default is to use SL.

Currently, the following flags are supported

1. Session 0
2. Session 1
3. Session 2
4. Session 3
5. SL

- **Select action:** Determines the behavior when the tag is selected or unselected.

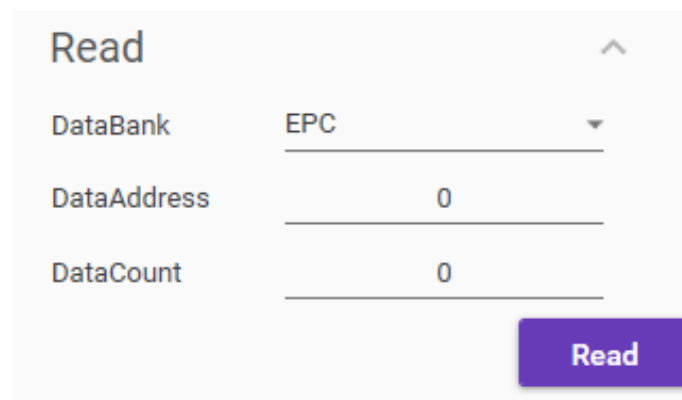
Currently, the following functions are supported

Action	Tag Matching	Tag Not Matching
ASLINVA_DSLINVB	assert SL or inventoried $\rightarrow A$	deassert SL or inventoried $\rightarrow B$
ASLINVA_NOTHING	assert SL or inventoried $\rightarrow A$	do nothing
NOTHING_DSLINVB	do nothing	deassert SL or inventoried $\rightarrow B$
NSLINVS_NOTHING	negate SL or $(A \rightarrow B, B \rightarrow A)$	do nothing
DSLINVB_ASLINVA	deassert SL or inventoried $\rightarrow B$	assert SL or inventoried $\rightarrow A$

DSLINVB_ NOTHING	deassert SL or inventoried → B	do nothing
NOTHING_ ASLINVA	do nothing	assert SL or inventoried → A
NOTHING_ NSLINVS	do nothing	negate SL or (A → B, B → A)

- **Mask:** Select mask for Select, the data format is hexadecimal.
- **Start Address(Hex):** Set the relative start position of the mask effect and the block.

18. Read

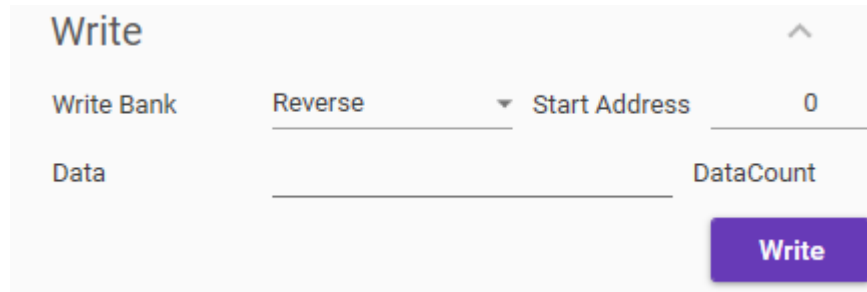


The image shows a 'Read' operation interface. It has a title 'Read' with an upward arrow. Below it are three input fields: 'DataBank' with a dropdown menu showing 'EPC', 'DataAddress' with a text input showing '0', and 'DataCount' with a text input showing '0'. At the bottom right is a purple button labeled 'Read'.

Specify the Reader to enter the read operation state. After setting the following parameters, press **Read** to automatically start the inventory:

- **Data Bank:** specify the block to be read.
- **Data Address:** Specify the relative starting position of the read block
- **Data Count:** Specify the length of the data to be read.

19. Write

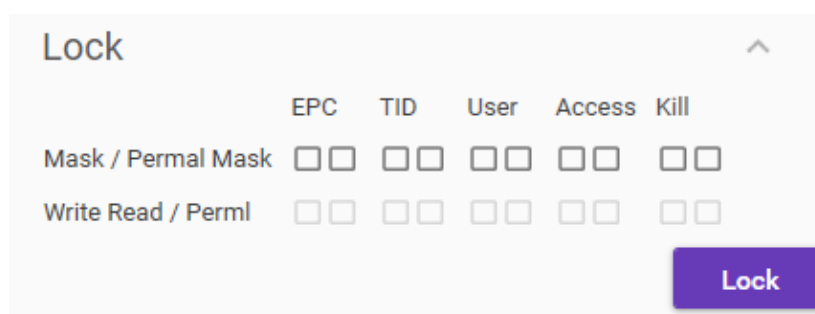


The 'Write' interface includes a title bar with an upward arrow, a 'Write Bank' dropdown menu currently set to 'Reverse', a 'Start Address' input field with the value '0', a 'Data' input field, a 'DataCount' input field, and a purple 'Write' button at the bottom right.

Specify the Reader to enter the write operation state. After setting the following parameters, press **Write** to automatically start the inventory:

- **Write Bank:** specify the block to be written.
- **Start Address:** specify the relative start position of the block.
- **Data:** Enter the data you want to write in hexadecimal format.

20. Lock



The 'Lock' interface includes a title bar with an upward arrow, a table for selecting lock parameters, and a purple 'Lock' button at the bottom right.

	EPC	TID	User	Access	Kill
Mask / Permal Mask	☐	☐	☐	☐	☐
Write Read / Perml	☐	☐	☐	☐	☐

Specify the Reader to enter the lock operation state. After setting the following parameters, pressing the **Lock** will automatically start the inventory:

- **Mask / Permal Mask :** Specify the item to be changed.

- **Write Read / Permal** : The function corresponds to the option parameter. When it is checked, it is locked (valid), and when it is not checked, it is unlocked (not valid).(*Note: After Perm Mask is checked, if Perm is not checked, the tag will be permanently unlocked)

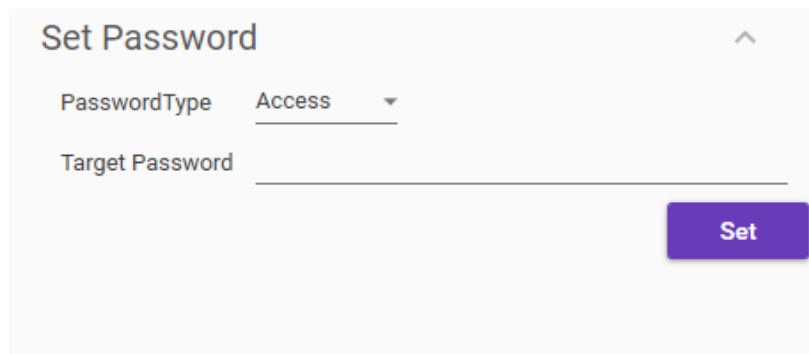
21. Kill


 A screenshot of a software interface for the 'Kill' operation. It features a title bar with the word 'Kill' and a close button. Below the title bar, there is a label 'KillPassword' followed by a text input field. At the bottom right of the interface is a purple button labeled 'Kill'.

Specify the Reader to enter the kill operation state. After setting the following parameters, press **Kill** to automatically start the inventory:

- **Kill Password** : Enter the kill password in hexadecimal format.

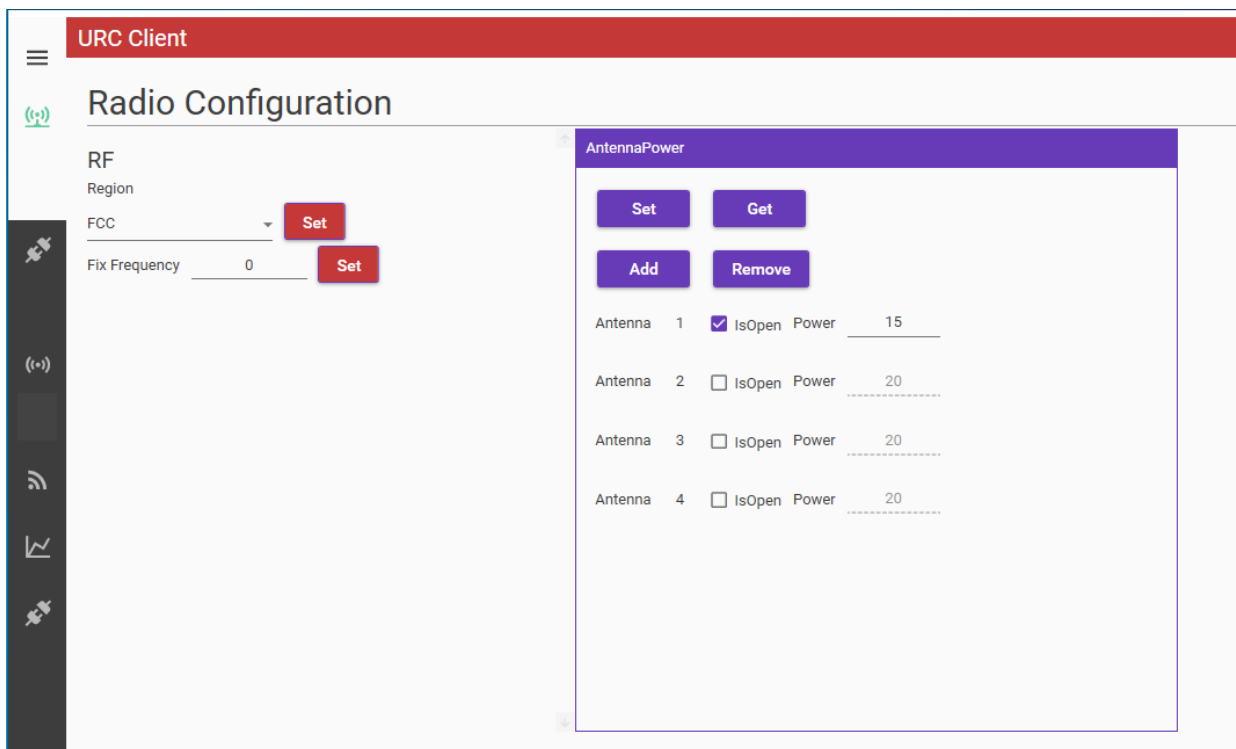
22. Set Password


 A screenshot of a software interface for the 'Set Password' operation. It features a title bar with the text 'Set Password' and a close button. Below the title bar, there is a label 'PasswordType' followed by a dropdown menu currently showing 'Access'. Below that is a label 'Target Password' followed by a text input field. At the bottom right is a purple button labeled 'Set'.

Specify the Reader to enter the write operation state, and press **Set** after setting the following parameters to automatically start the inventory:

- **Password Type:** Select the set password type.
- **Target Password:** Enter a new password in hexadecimal format.

23. RFSettings



URC Client

Radio Configuration

RF

Region Set

FCC Set

Fix Frequency 0 Set

AntennaPower

Set
Get

Add
Remove

Antenna	1	☒ IsOpen	Power	15
Antenna	2	☐ IsOpen	Power	20
Antenna	3	☐ IsOpen	Power	20
Antenna	4	☐ IsOpen	Power	20

This area is to set the RF working frequency range and antenna transmit power. The available options are as follows:

- **Region:** Select the applicable frequency range of the reader. Please set it according to the country where you are located. After selecting, press Set to apply.

- **Fix frequency:** It is used for error detection or special situations. The usable frequency may be limited by hardware designed according to the laws and regulations of different countries, and the unit is MHz.
- **Antenna Power:** Adjust the antenna transmit power, the unit is dBm.

(* Note: Please press Get first to get the current antenna settings, after adjusting the parameters, press Set to apply)

24 NCC Warnings

For the low-power radio frequency equipment that has obtained the verification certificate, without approval, the company, firm or user shall not change the frequency, increase the power or change the features and functions of the original design without authorization. The use of low-power radio frequency equipment shall not affect flight safety and interfere with legal communications; if any interference is found, it should be stopped immediately, and it should be improved until there is no interference before continuing to use it. The aforesaid legal communication refers to the radio communication operated in accordance with the provisions of the Telecommunications Management Law. Low power radio frequency equipment must endure interference from legal communication or radio wave radiated electrical equipment for industrial, scientific and medical use.

This product is for professional installation only. Non-professional personnel are not allowed to disassemble and replace related accessories at will.

25. FCC Warning

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

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in

a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

RF exposure statements

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

This product is for professional installation only. Non-professional personnel are not allowed to disassemble and replace related accessories at will.

26 Contact us

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