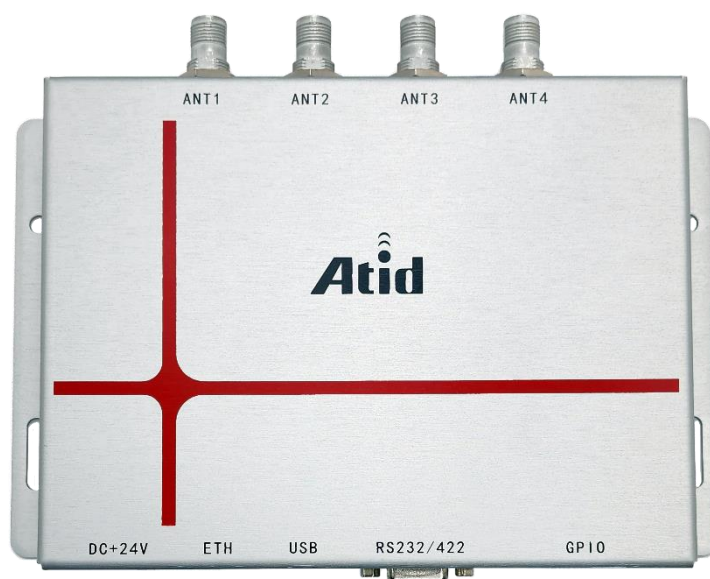


ATF862 Quick Start Guide



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Introduction

The focus of This document is to help customers set up ATF862 quickly. This document will provide a brief overview of the interfaces and how to use the reader to inventory tags through the web UI.

Product Specification

Performance	
Processor	ARM+DSP dual core
Memory	256M RAM, 8GB eMMC
Operating System	Linux
RFID Parameters	
Air Protocol	EPC global UHF Class Gen 2 / ISO 18000-63
Transmit Power	/
Frequency Range	US / FCC : 902.75MHz ~ 927.25MHz EU / CE : 865.7MHz ~ 867.5MHz CN : 920.625MHz ~ 924.375MHz
Multi-Label Reading	Maximum 400+ tags / sec
Reading and Writing Distance	0~33m
Interface Parameters	
Ethernet Port	10 / 100 Ethernet (RJ45)
Antenna Ports	4 RP-TNC Interface
USB Port	1 USB 2.0, Type-A
RS232 / RS422 Port	Support communication with external module (e.g. Antenna Hub)
GPIO Ports	4 isolated inputs and 4 isolated outputs
Power Support Mode	DC 24V Power Adapter 802.3af PoE / 802.3at PoE+
Communication Protocol	JSON Format : HTTP, TCP Socket, MQTT
Weight	0.6 Kg
Shell Material	Aluminum alloy
Protection Level	IP52
Environmental Parameters	
Operating Temperature	-25°C ~ +70°C
Storage Temperature	-40°C ~ +80°C
Operation Humidity	5% ~ 95% RH (non-condensing)

Quick Start-Up Guide

1. Connect and Power Up

Besides the reader, a 24V/1.5A power adapter, and a power cord included in the product package. A network cable, the RF cable, an antenna, and some tags also need to be prepared. The following figure shows interfaces of the reader.



Figure 1. Interfaces of the reader

- 1) **A** : 24V Power Supply Interface
- 2) **B** : Reset Button
- 3) **C** : Network Interface (RJ45 Ethernet Port)
- 4) **D** : Runing-State Indicator LED

AS the following **Figure 2.** shows, connect power and network interfaces with cables.

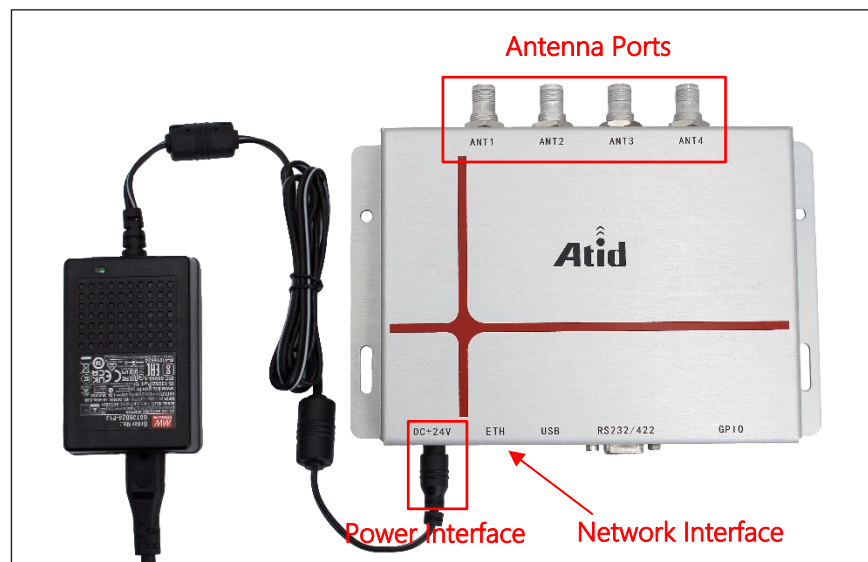


Figure 2. Connect Power Supply Interface

As the following **Figure 3.** shows, there is no need to connect the power interface if you are powering the reader via PoE.

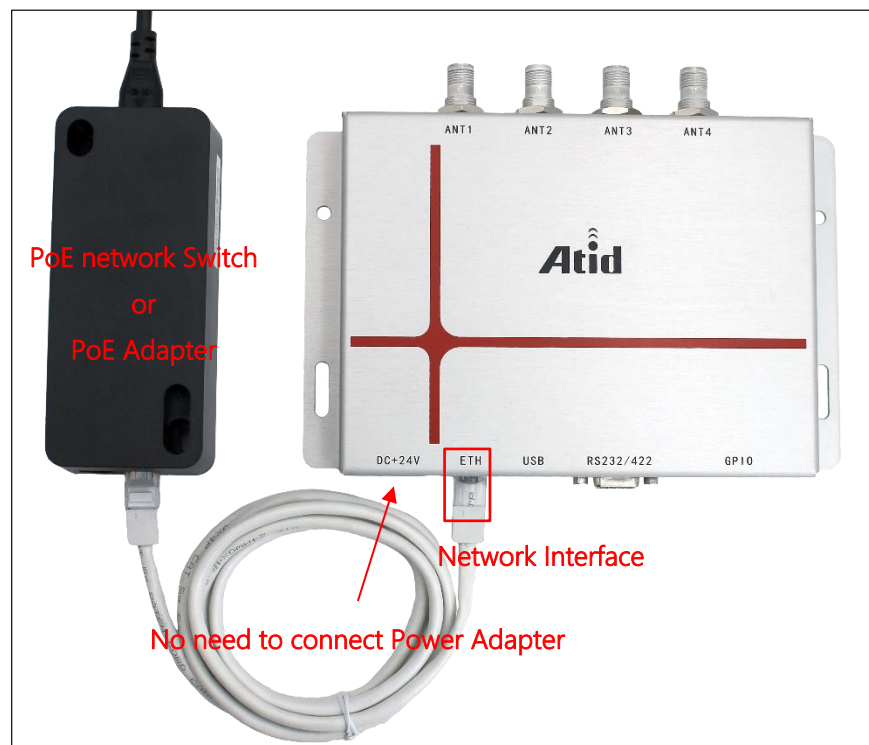


Figure 3. Power Supply via PoE

After connecting an antenna to ANT1 interface, power up the reader. With a brief buzzing sound, the reader will automatically turn on. It will take the reader 20 seconds to initialize itself. Wait for until running indicator LED state is changing from blinking to constantly on, which means initialization is completed.



Figure 4. Running indicator LED

If the reader is reconfigured with an IP address and password after leaving the factory, and you are unaware of the new IP address and password, it is supposed to reset the reader before moving on to the next section. Section **4. Reset** shows that how to reset the reader. If the reader remains in factory configuration, or you are aware of the IP address and password, move on to the next step.

2. Login

It is suggested to use Chrome browser to access the reader. The default IP address of the reader is 192.168.9.23, ensure that the PC and the reader are on the same network segment. Enter the IP address of the reader in the browser address bar to access web UI.

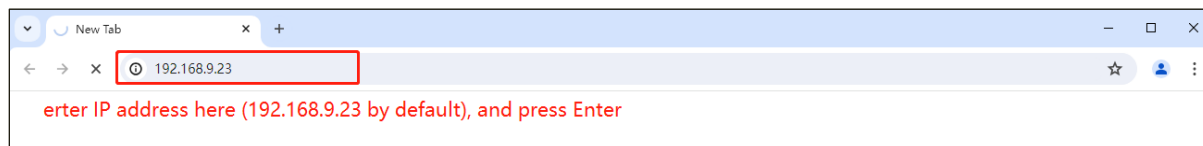


Figure 5. Enter IP address

The login page is showing as following **Figure 6**. Enter username and password and click **Login** button to login. By default, the username is **admin** and password is **admin**.

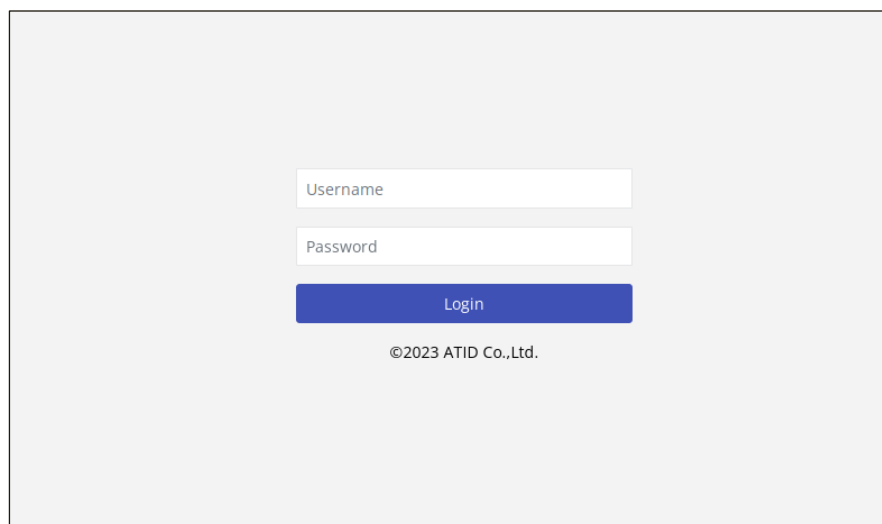


Figure 6. Login Page

3. Inventory Tags

The reader may be set to slave mode, so it is necessary to set it to master mode as the following figure shows. Click **Save** button after configuring work mode.

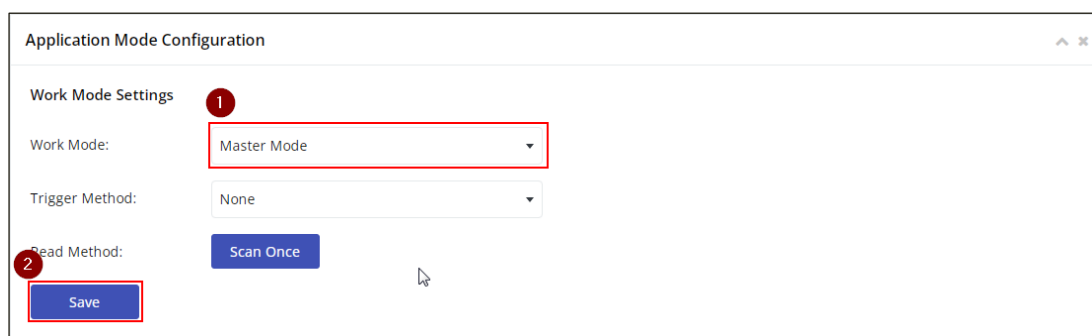


Figure 7. Switch to Master Mode

Set ANT1 power to 30 in the **Antenna Port Settings** menu. Click **Save** button after to save configurations.

The screenshot shows the 'Inventory Information Display' section at the top, which includes filters for 'Number Of Tags' (0), 'Time(s)' (--), and 'Tag Read Rate' (--), along with a 'Clear Tag' button and a search bar. Below this is a table with columns 'EPC', 'TID', 'USER', 'ANT1', and 'TIMESTAMP', but it is currently empty with the message 'No data available in table'. The 'Antenna Port Settings' section below contains four dropdown menus for 'ANT1 Power(dBm)', 'ANT2 Power(dBm)', 'ANT3 Power(dBm)', and 'ANT4 Power(dBm)'. The 'ANT1 Power(dBm)' dropdown is set to '30' and is highlighted with a red box and a red circle with the number '1'. The 'Save' button is highlighted with a red box and a red circle with the number '2'.

Figure 8. Configure Port Power

Set **Trigger Method** to **Normally Open** and Click **Save** button, then the reader begins to inventory tags.

The screenshot shows the 'Application Mode Configuration' window. Under the 'Work Mode Settings' section, there are two dropdown menus. The 'Work Mode' dropdown is set to 'Master Mode' and is highlighted with a red box and a red circle with the number '1'. The 'Trigger Method' dropdown is set to 'Normally Open' and is highlighted with a red box and a red circle with the number '2'. The 'Save' button is highlighted with a red box.

Figure 9. Switch Trigger Method

As the following **Figure 10.** shows, the indicator LED of ANT1 will light up after starting inventory.



Figure 10. Indicator LED of ANT1

Once tags are put into the range of the antenna, the indicator LED begins to blink and data of tags will be shown in **Inventory Information Display** menu. Following **Figure 11.** shows how the data of tags is displayed.

Inventory Information Display

Number Of Tags: 3 Time(s): 6.0 Tag Read Rate: 300 [Clear Tag](#)

Show 10 entries Search: [CSV](#)

Showing 1 to 3 of 3 entries

EPC	TID	USER	ANT1	TIMESTAMP
2233475A3457414B			R:-50.98 P:55 C:599	17:30:24.794
3137475A3457414B			R:-63.01 P:178 C:599	17:30:24.794
FC040820220715050856672088620016			R:-39.23 P:38 C:599	17:30:24.794

[Previous](#) [1](#) [Next](#)

Figure 11. Inventory Information Display menu

For the stop inventory, set trigger method to **None** and click **Save** button.

Application Mode Configuration

Work Mode Settings

Work Mode: Master Mode

Trigger Method: **None**

Read Method: [Scan Once](#)

[Save](#)

Figure 12. Switch trigger method to None

4. Reset



This operation will reset all settings of the reader to default values. Reset the reader only when there are no other ways to figure out IP address or password of the reader.

To reset the reader, turn off the power of the reader, then keep pressing the reset button (it is next to the power interface as the following **Figure 13.** shows) and power up again. Keep pressing the button and noticing indicator LEDs of 4 antenna ports. Release the reset button after the indicator LEDs blinking three times, which means the reset operation is completed.



Figure 13. Position of the reset button



Figure 14. Indicator LEDs of antenna ports

After resetting, IP address of the reader is set to 192.168.9.23, and both username and password is set to **admin**. Continue from section 2. **Login** to set up the reader.

Product Warranty

1. ATF862 Product Details

For more information on product details **ATF862**, please visit the address below.

ATID Homepage



<https://atid1.com/>

2. Warranty and Technical Support

All **ATID** products can be repaired free of charge for one year based on the product manufacturing date. However, in principle, any defects caused by customer carelessness in use shall be repaired even during the free repair period.

For warranty, technical support and inquiries about this product, please contact the distributor or **ATID**.

3. Certifications

FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

ATID Co.,Ltd.

Address : #1402, 83, Gasan Digital-1ro, Geumcheon-gu, Seoul, Republic of Korea (Zip code. 08589)
Phone : +82-2-544-1436
Fax : +82-2-859-0045
Homepage : www.atid1.com
Email : inquiry@atid1.com

The contents of the user manual are subject to change without notice for product specifications change or improvement.