



POS  
SYSTEM  
Electronic  
Manuals



Rev.1.00.160923.E

This manual consists of system introduction, system installation, system use, system expansion and appendix A/B

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## Part 1. System Introduction

### 01. Safety Notices Before Installation or Use

Read these cautions to avoid damage or injury.

**Keep rated voltage.**

The product can be damaged or burned by overvoltage.

**Do not use damaged components.**

The product may be damaged unless it is repaired at service center.

**Install the product in a clean and dry place.**

The product may not work properly in moist or dusty environments.

**Always copy important files.**

Always copy important files because data loss cannot be guaranteed by manufacturer.

**Turn off the system and Remove the power cable before the product is removed.**

You may get an electric shock.

**Do not use loose or damaged power cables.**

There may be electric shock or fire.

**Always connect power cable to a grounded 3-wire outlet.**

It prevents electric shock from electrical short.

**Install the product at a place with good ventilation.**

The product may be transformed or burned by overheating if air vent is blocked.

**Use power strips designed for computers.**

There may be fire caused by overvoltage.

**Use the cleaner which is only for computer.**

Do not use benzene, thinner and alcohol or the product may be damaged.

**Keep the product away from heaters.**

The product may be damaged, overheated or burned.

**Turn on the system after turning on peripheral device. Turn off peripheral device after turn off the system.**

The product may be damaged.

**Install the product in a safe, stable place.**

The product may be damaged or you may get injured if the product is dropped.

**Keep the product away from magnetic materials.**

The contents of HDD may be erased or the electronic components may be damaged.

Carefully store or dispose of plastic packing material.

It is dangerous if children put their head on it.

Do not touch the power plug with a wet hand.

You may get an electric shock.

Do not touch modem, telephone line or exposed terminal during electrical storms.

There may be electric shock or fire.

Upgrade the system after shutting off the power of system and its peripheral device.

The product may be damaged.

#### [FCC Certification notice]

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.

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.

THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT

#### IMPORTANT NOTE : FCC RF Radiation Exposure Statement

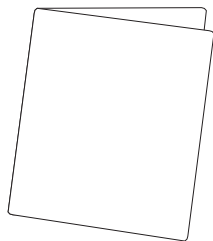
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

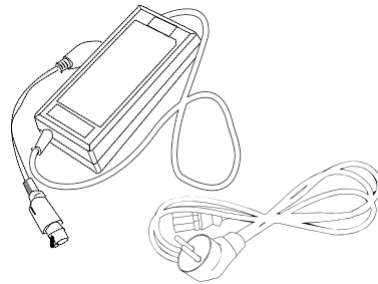
# Part 1. System Introduction

## 02. System Introduction

- The exterior design and specifications of product can be changed without prior notice in order to improve quality.



<Quick manuals>



<Power cable/Adaptor>

## Part 1. System Introduction

### 03. General Specifications

Processor	CPU : Intel Celeron N3160 ( Quad Core up to 2.24GHz)	
Chip sets	SOC	
Graphic	Integrated Intel HD Graphics	
Data storage device	M.2 SSD (16GB)	
Memory	N3160 : DDR III SODIMM 1 Slot (Up to 4GB)	
BIOS	AMI (America Megatrends Inc.) UEFI BIOS	
Display	Size : 15 (38.1cm) 1024 X 768 resolution LED LCD	
	Support Colors : 16.2M Colors	
	Contrast Ratio : 500:1	
Touch Panel	15inch 5 – Wire Resistive Type	15inch True flat PCT(Projective Capacitive)
	Interface : Serial(COM4)	Interface : USB
	Transparency : 80%	Transparency : 80% over Surface
OS	Android 6.0(Marshmallow)	
I/O Interface	COM(Serial) Port : D-SUB 9P x 2Ports / RJ-45 x 1Port	
	5V / 12V or RI outputs through COM 1. 2. 3(BIOS setup)	
	USB : USB 2.0 x 2Ports / USB 3.0: 4 Ports	
	Ethernet Port : 10M / 100M / 1Gb LAN RJ-45 x 1Port	
	VGA Port : D-SUB 15P x 1Port	
	Audio Port : Line-out x 1Port	
	DC-OUTPUT Port : 12V DC-OUT 2.5Φ x 1Port	
Booting device	m.2 SSD	
Power supply	AC INPUT : AC 100~240V / 50~60Hz, 2A	
Dimensions	WxHxD : 379x264x362(mm)	
Weight	6.0Kg	

# Part 1. System Introduction

## 04. Optional Specifications

<p>Magnetic Swipe Reader(MSR)</p>	<p>Read Track : ISO track 1, 2, 3 Interface : Internal USB Performance : 10~150 cm/sec Head Reliability : 500,000 times Error rate : Less than 0.5%</p>



## Part 1. System Introduction

### 05. Name and Function of each component (Front View)



1. Credit card recognition lamp : When the card reader recognizes a credit card, the light is on.

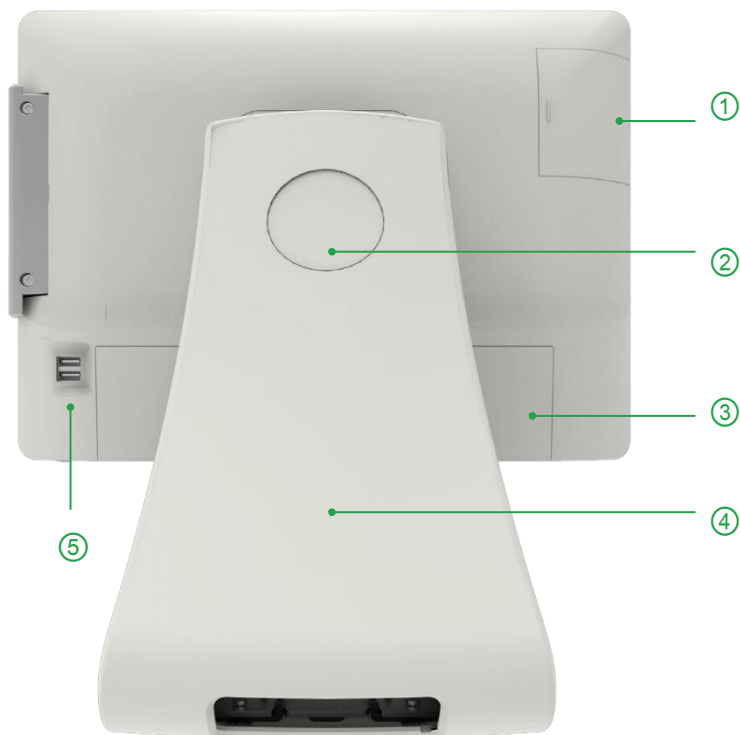
2. Payment module (option) : MSR can be used.

3. Indicating lamp & Power button : The light is on when the system is on.

4. Stand

## Part 1. System Introduction

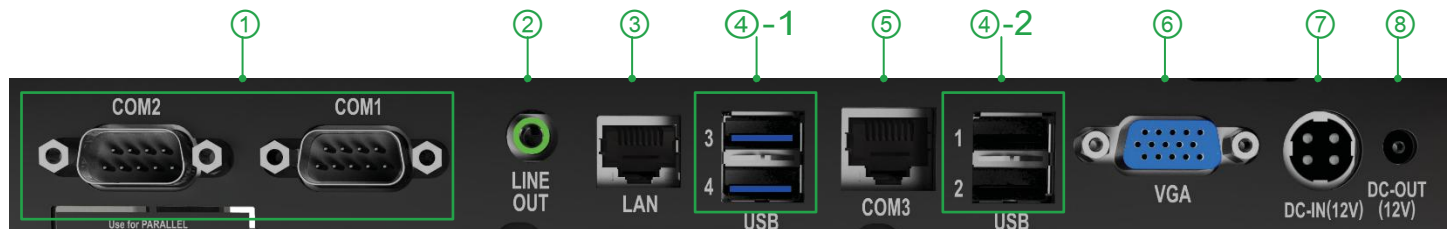
### 06. Name and Function of each component (Rear view)



1. HDD Slot : You can connect 2.5" HDD or SSD
2. Integrated customer display cover: Remove this cover, you can install the all-in-one customer display.
3. Interface cover : Remove this cover, you can install the peripheral device.
4. Dummy for cable arrangement : Remove this cover, you can arrange cables of device.
5. USB Port : USB Devices can be used through this port, i.e. USB scanner, USB Keyboard, USB Printer, etc.

# Part 1. System Introduction

## 07. Name and Function of each component (I/O)



1. D-SUB 9pin COM (Serial) port : You can connect serial devices such as barcode scanners, printers.
2. Audio port(Line-out) : You can connect the external speakers.
3. RJ-45 LAN (ETHERNET) port : You can connect RJ45 cable for 100/1000 Mbps Ethernet connection.
4. USB 3.0 port : You can be used to connect devices such as the USB scanner, USB keyboard, USB printer.
5. RJ-45 8pin COM(Serial) Port : You can connect serial devices such as barcode scanners, printers.
6. D-SUB 15pin VGA port : You can connect the external monitor.
7. 12V DC Input (Input power connection) : Jack is connected to the adapter to supply power to the system.
8. 2.5Φ 12V DC Output(for Rear display) : System connected to an external DC power cable to the power that can be an output jack.
9. RJ-11 6pin Cash Drawer port : You can connect the cash drawer.

10. Setting switch of Cash drawer voltage (Option) : You can switch the power (12V/24V) for a cash drawer.

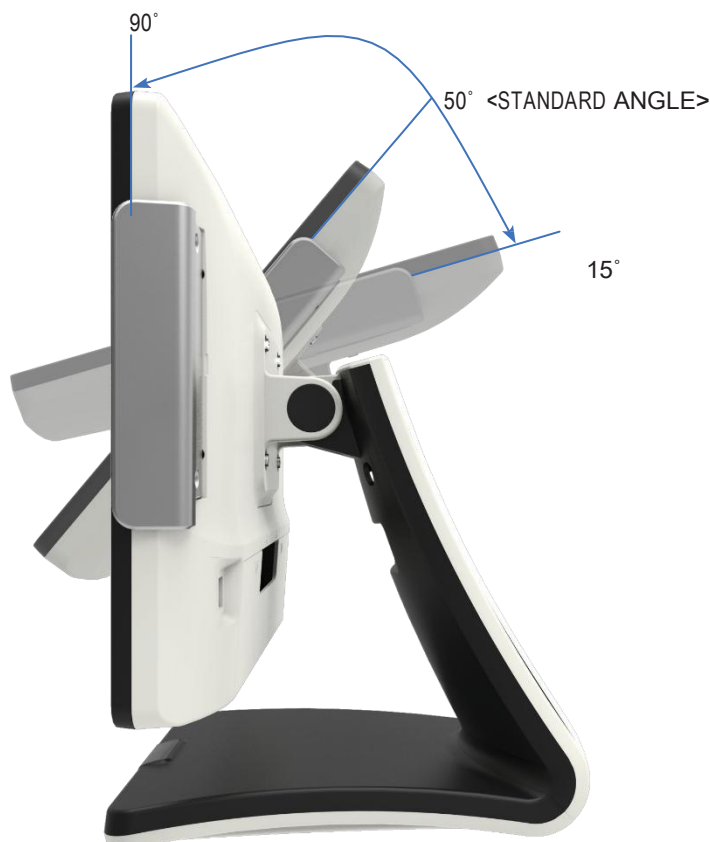
11. This is location of the label rating of the product.

## Part 2. System Installation

### 01. Checking the Location for Installation

It is important to choose a safe and secure place to install the terminal.

- Choose a desk or table big and strong enough to support the weight of the system and peripherals.
- Choose a flat, hard surface. Carpeted area can generate static electricity that can alter memory or damage system components.
- Make sure a system installed in a well-ventilated place and keep the space free around the system.
- Choose appropriate environmental conditions such as cool and dry places. Avoid humid and dusty places. Also avoid direct sunlight, rapidly changing temperatures, or placing the system near heat sources.
- Select the appropriate voltage. Connect all the equipment into an isolated outlet to prevent static electricity and short circuit.
- Where sufficient power outlets are available for printers and other peripheral devices.
- Do not install near electromagnetic and electrical devices, such as phones and electric motors, that can cause system damage.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.





Note

Adjust the system depending on the condition and use it with the exact angle. Adjustable angle shown in the figure.



Cautions

- Use the same battery for the product (motherboard) to prevent a risk of explosion.
- Dispose of used battery according to the separate instruction.

## Part 2. System Installation

### 02. Before Connecting Peripherals

To connect peripherals first remove the 'Interface cover', which is in the bottom of the system, after that remove the 'Cable arrange cover' which is in the rear of the system.

- **Interface cover remove**

1. As it shown in the picture pull the 'Interface cover' in the direction of the arrow.



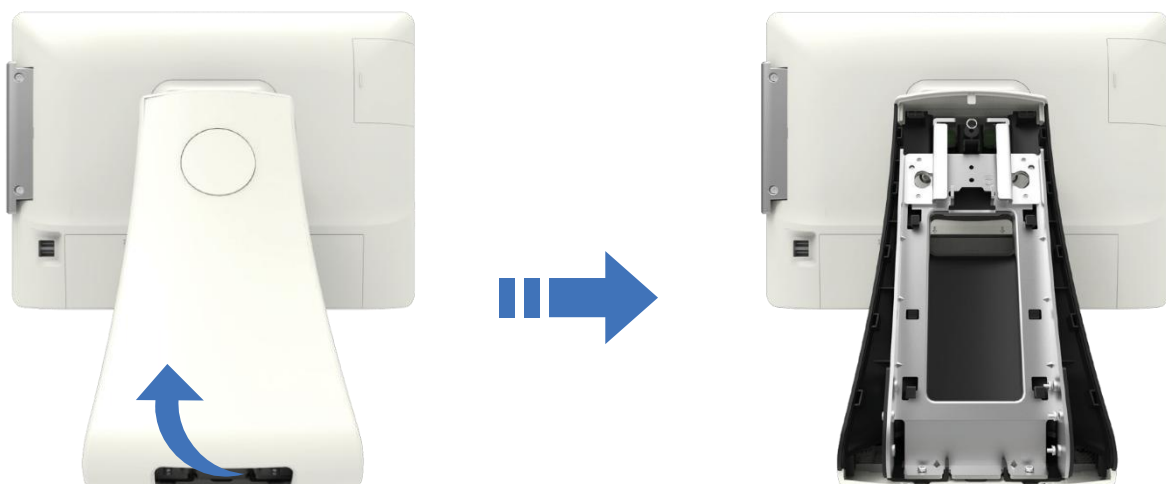
Cautions

- Turn off the power of the body and connect peripherals.
- Connecting peripherals to the corners parts of the system can cause hands injury. For your safety use the gloves.



- **Cable arrange cover remove**

1. Remove the 'Cable arrange cover' in the direction of arrow shown in below picture.



## Part 2. System Installation

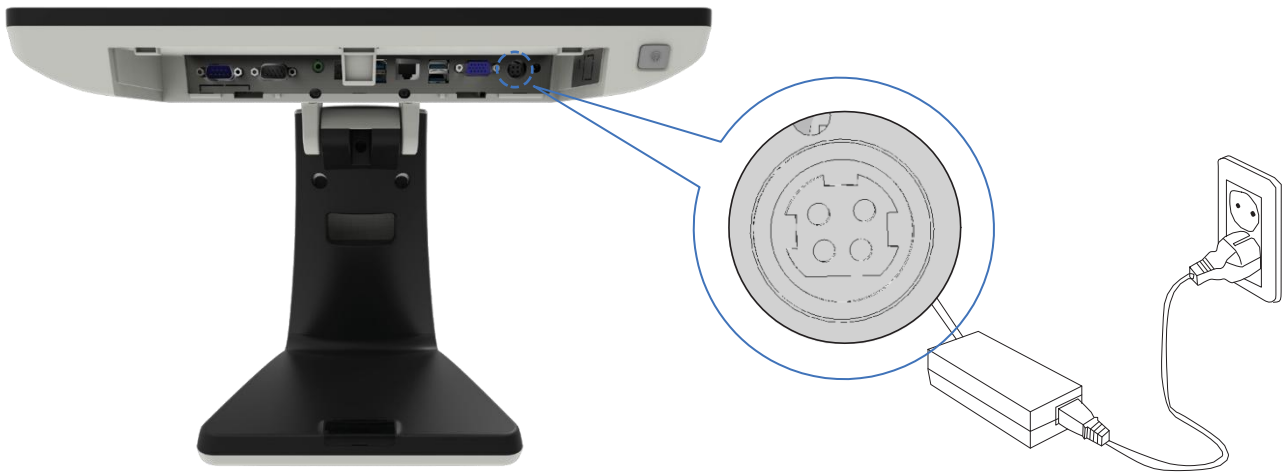
### 03. Connecting DC power supply cable

Connect the DC power cable to the DC power input connector at the bottom of the system. (Adapter 100V – 220V free voltage of the system can be used.)



Cautions

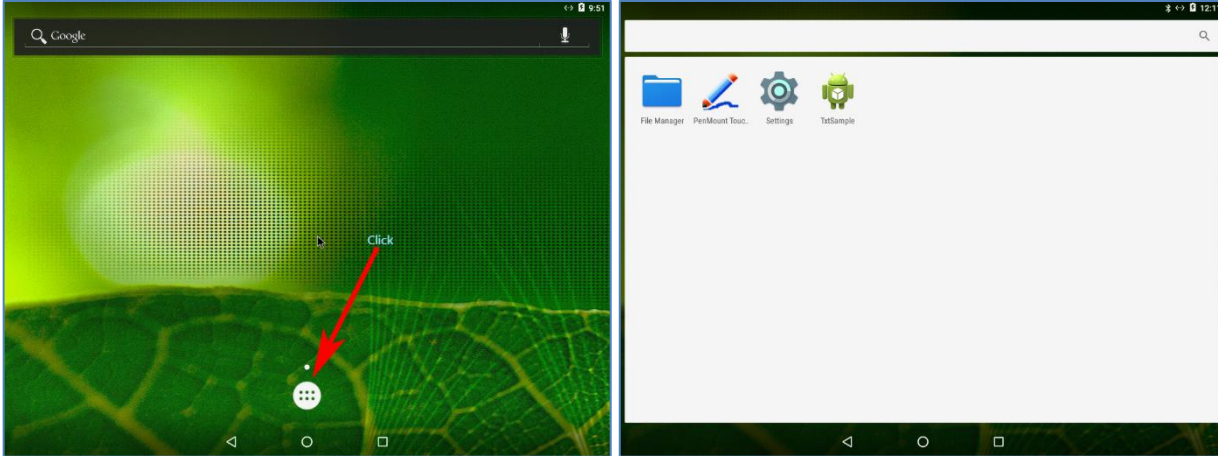
- Only manufacturer adapter should be used for this system.
- Manufacturer wont take responsibility for damages caused by using products which not made by manufacturer.





# Part 3. System Utilization

At First, please click the Menu Icon and follow as bellow sections in the list of Application.



## 01. Resistive Normal Touch

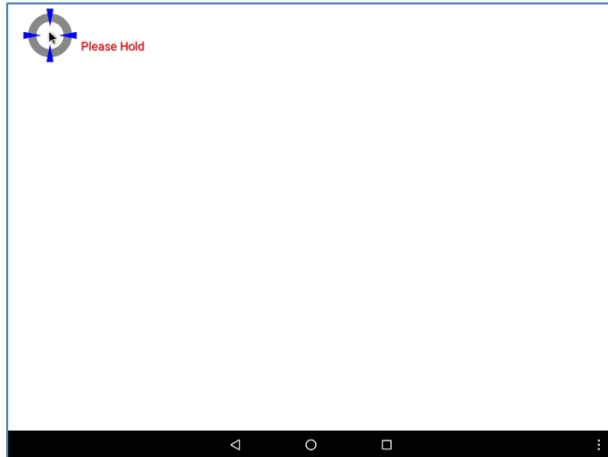
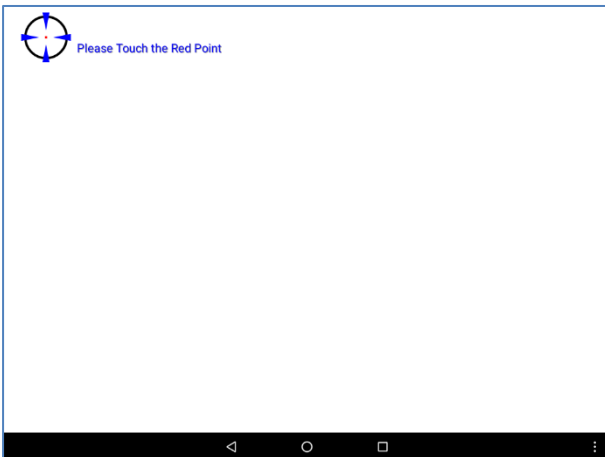
1. Click PenMount Touch Application.



2. Select the options and Click the Calibrate. Recommend default option as below.

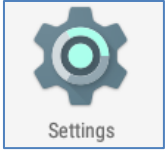


3. Long press the Calibration Point as below.



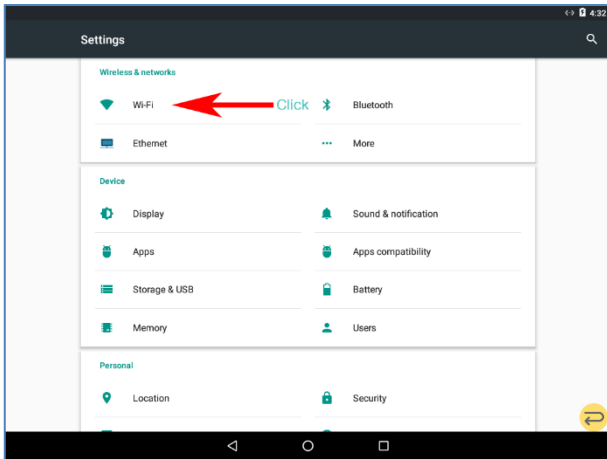
# Part 3. System Settings

Click Settings Icon and follow belows.

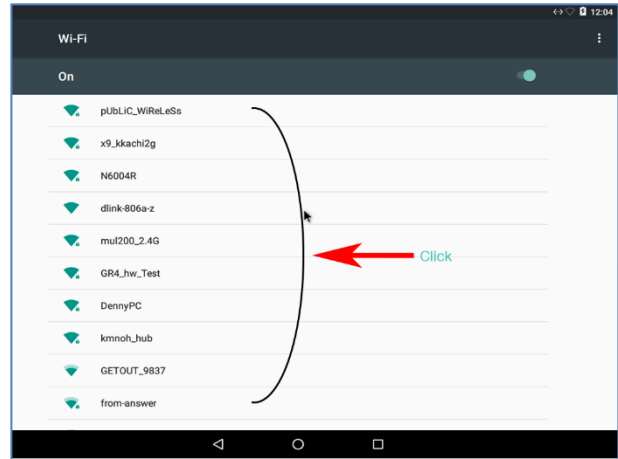
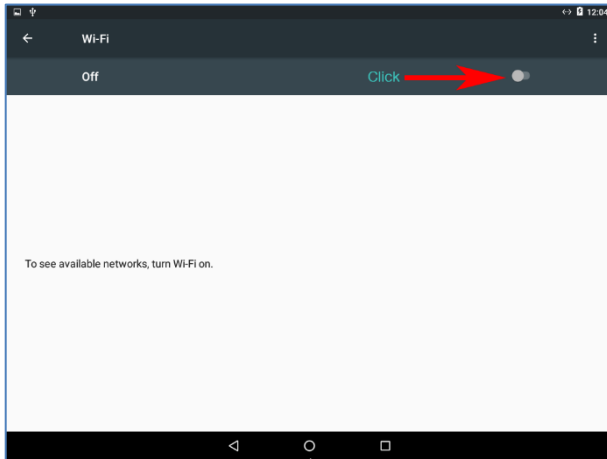


## 02. Wi-Fi

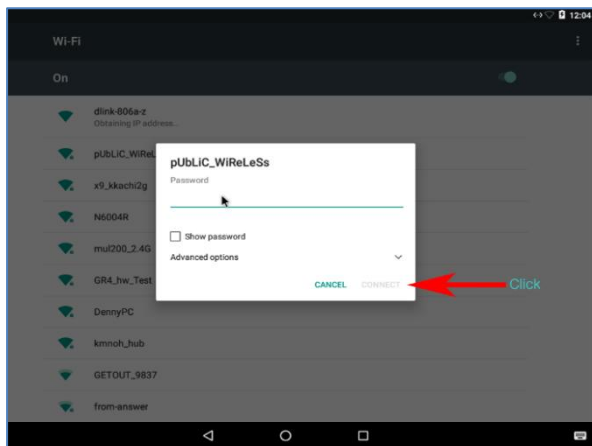
1. Click the Wi-Fi Menu



2. Turn on the Wi-Fi switch and click your router.



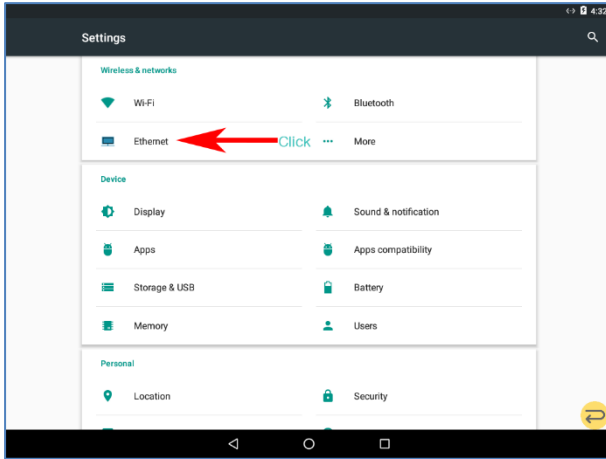
3. Input password and click the Connect.



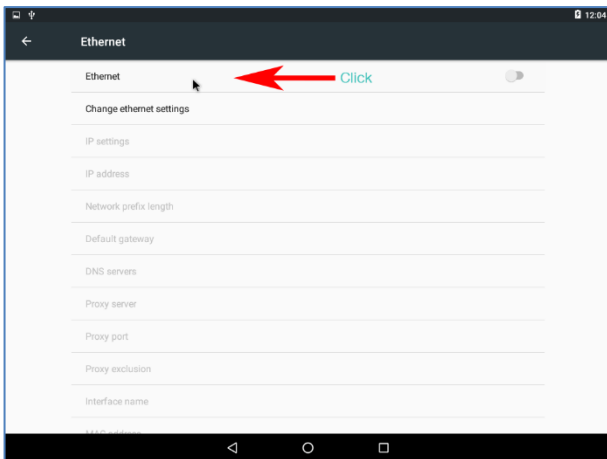
# Part 3. System Settings

## 03. Ethernet

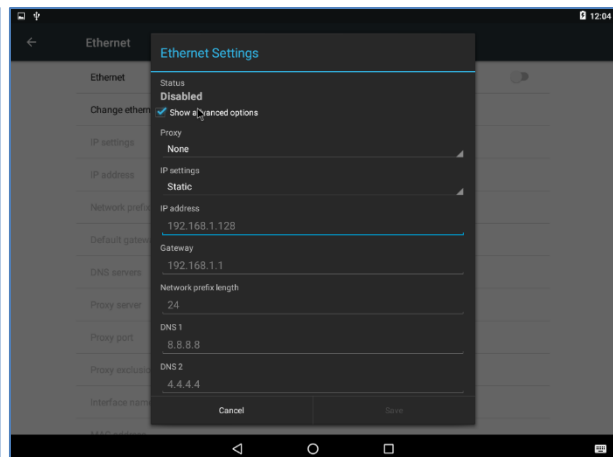
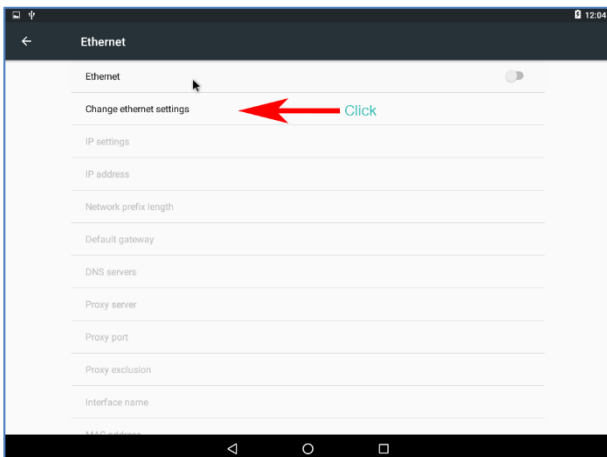
1. Click the Ethernet menu as bellow



2. Turn on the Switch.



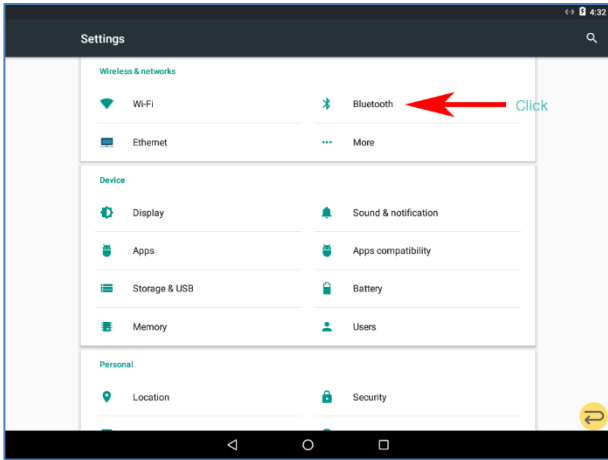
3. You can change the Ethernet Settings as below.



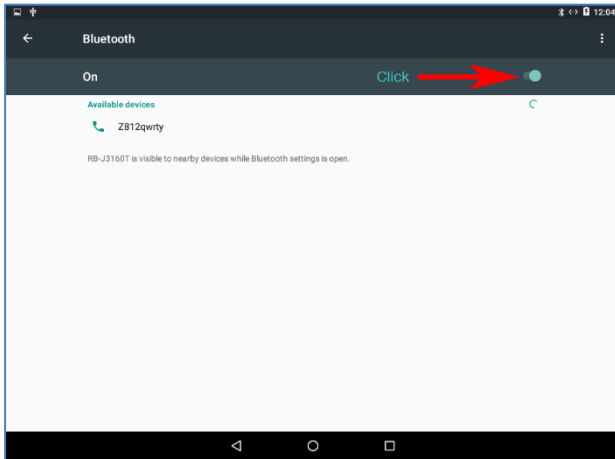
# Part 3. System Settings

## 04. Bluetooth

1. Click the Bluetooth menu as bellow



2. Turn on the Bluetooth



3. Select your Device

