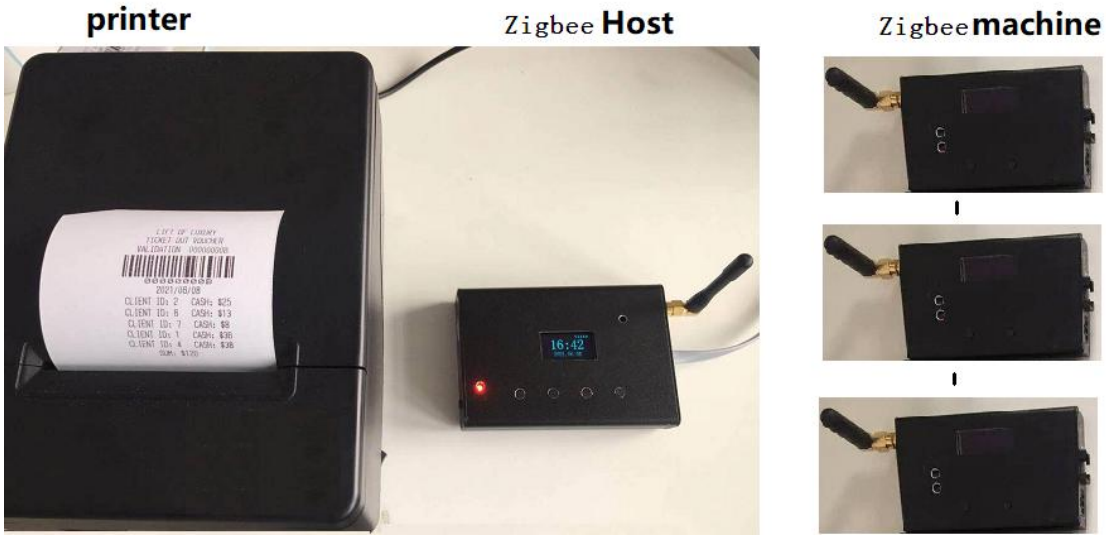
ZIGBEE-print settlement system

1. Product Overview

1.1 Product composition

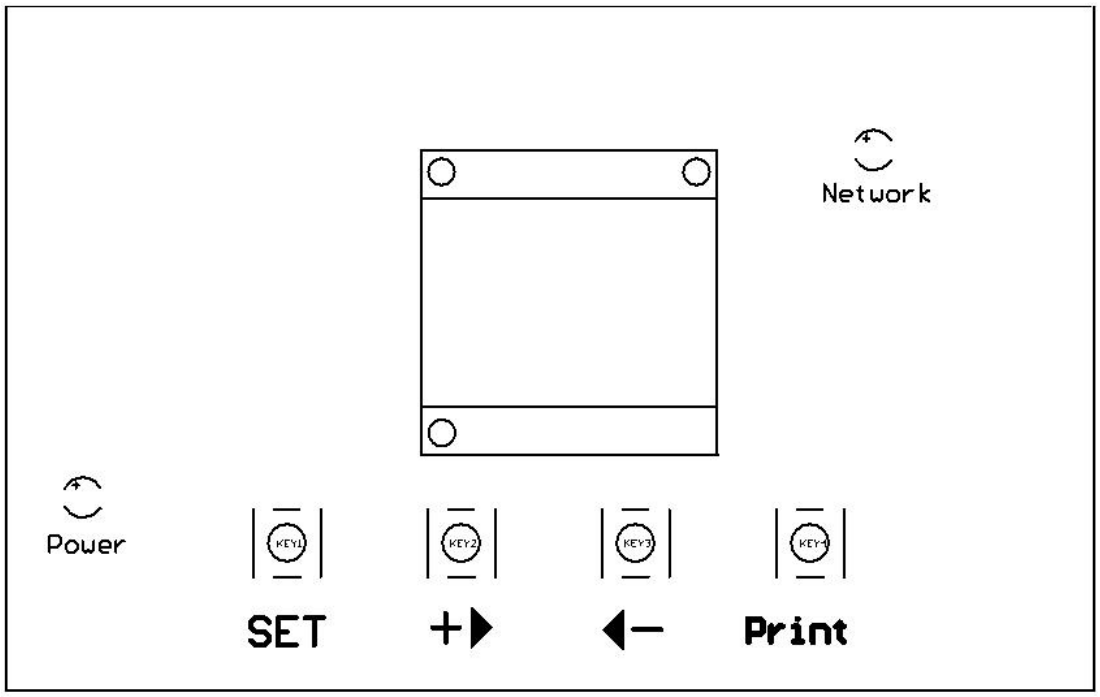


1.2 Product introduction

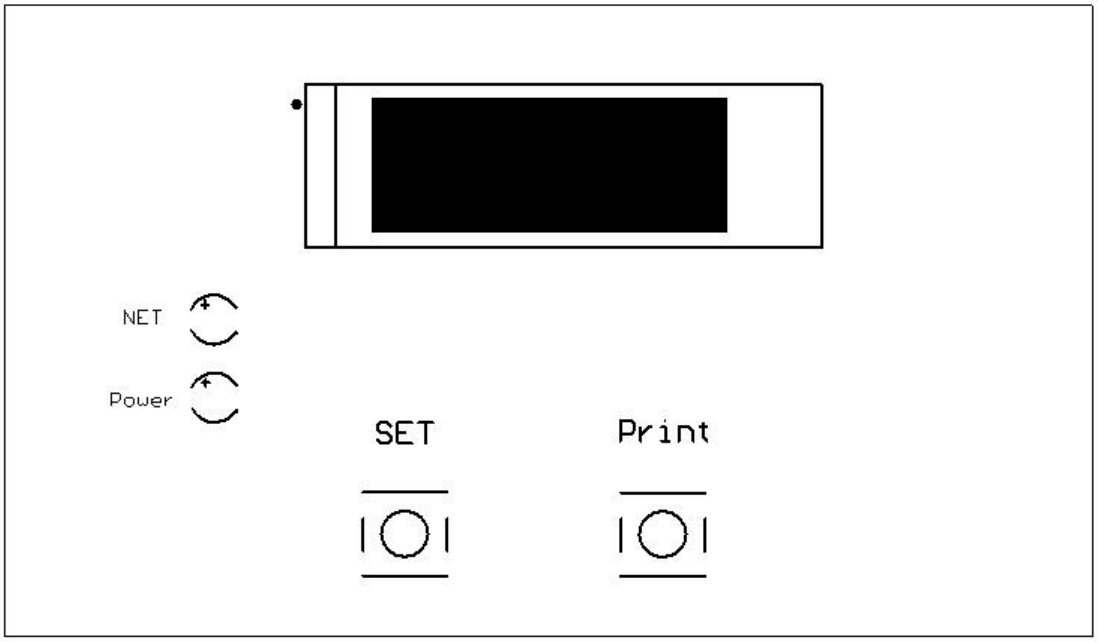
Functions	description
Networking capacity	A host supports up to 16 slave networks, and the 2-bit dialing on the host can separate the A group, B group, C group, and D group.In theory, four consoles in the same game hall can collect up to 6 4 data from the machine.
The host communicates with the printer	Please dial the printer to 9600 serial communication (you can press the test button on the printer to call the corresponding port rate) Only zigbee host 9600 Brate communication with printer is supported.Connect the 6P interface provided to the printer and the zigbee host, dial the code correctly, and the test page can be printed for 4 seconds by pressing the print on the Zigbee host.Explain that the host hardware connection and communication are normal.
Zigbee slave	Supports signal acquisition of 2400 and pulse input type of 9600,115200 serial port port rate.
Codes	Host dial: The first two of the dial switch are to adjust the port rate The first two of the dial switch are the network ID into A group, B group, C group and D group Codes from machine: The first two of the dial switch are to adjust the port rate The first two of the dial switch are the slave ID,1~16 Special Note: All dialing are only re-powered.

Network lights Network	Host: The green led lamp is often turned off on the host standby.After the host increases the slave device, the led is often bright for 4 minutes, allowing the slave device to join the host for data acquisition. From the machine: After connecting the host, the green light always shines, the line or the distribution network often extinguished.
Description of the host operating interface	Host: (attached Figure A host interface description) There are 4 keys on the host: set, add, sub, print There are 2 indicators on the host: Power, Network Set : Short press for switching and selection of the OLED interface Press 3S to open the allowable net for 4 minutes and illuminate the Network indicator on the host.Allow slave host to remind (not the same slave address code of the same network, the same address code can not join the host) add : Short press for project selection and move to the right sub : Short press for project subtraction selection, move left Print: Short press to print reports or print test pages Power: Host power supply indicator lamp.There are 3 power supply modes.Among them, the power supply and printer can mainly meet the communication through the telephone line 6P interface.Other 2 alternatives (micro USB, External 6P connector) Network : Networking indicator, only 4 minutes.(After networking, the host or from the zigbee connection)
From the machine button Description	From: (Figure B slave interface) There are two main keys on board: set, print There are 2 indicators on board: Power, NET set: Short press start to add net Press the factory for 4 seconds to resume Print: Short press are used for interface switching A long press of 4S used for test printing Power: Power supply indicator lamp from the machine.Connect to the game console through the external 6P connector, connect the required red line to the 12V DC black cable to the GND (allow the input of 5V—24V DC power supply from the machine)

	NET: The slave network online indicator light.Only this light on shows that the slave is connected to the host.(The test page of the slave can be printed by pressing the Print on the slave for 4 seconds.To show whether the network is smooth)
Host OLED interface	Host: (separately out to write operation instructions) 1. display time and ticket information scroll display (the content of the scroll bar can be changed to the serial port location address or the desired settlement system name) 2. login password with an initial password of "0000" 3. Home feature Selection: 1. daily settlement report, 2. Time setting, 3. Login password equipment, 4. restore the factory settings (input administrator password to restore the factory) From the machine: 1. slave ID information and baud rate 2. last settlement and master worker settlement
Charilling by machine pulse input mode	Support every 50ms positive billing, receiving 2P pulse output on the game console to the Pusle-In port.Note positive and negative poles. (The test can be short-connected via the red and black 2P interface for a $1 analog input)
Enter illing from serial port	Supports signal acquisition of 2400 and pulse input type of 9600,115200 serial port port rate.Knowing what the port rate communication is on the game console, you will set the slave code to the same communication mode.The port rate follower address is displayed on the corresponding OLCD screen.
Real-time printing	Support the host printing of bills in real time when settling from the computer
Day-to-day statements	The Host supports the printing of daily knot reports,
Report from machine	Support single input, summarize with the flow of the day. After 12 PM, the main opportunity will clear the data of the previous day and restart the calculation.
PC end modification Content	Through serial port software, serial port port rate: 115200 hardware drive: CH340e . Win10 not need to installed drive. 1. supports PC modification modify the standby scroll bar 2. Modification Time 3. modify the login password (if the host's administrator password does not remember, can only be modified through the PC side)



A diagram host operating interface



B diagram of slave operation interface

1.3 Product operation instructions

1.3.1 network operation

Host long press set button 3S after let go, see the Network green light on the host for 4 minutes, short press set, from the machine to see the green light, the network is successful.

1.3.2 print test

The dialing code on the printer goes to 9600 

, and the host also goes to 9600 

。 Power the host.If the host can press the Print button, and the test page can print that the host power supply and communication meet the conditions.After getting from the unit network, the NET indicator light is on, and long press print 4 second, to test and print it out, indicating that there is no problem with the power supply and communication from the machine and the host.

1.3.3 restore factory setting

Host:

After logging in to the system, select restore factory, and then enter the password, and you can recover. Note that the host recovery will also restore the slave under the host.

From the machine:

Long press the set key to recover, the page shows the host ID for NULL, composition power ID on the page will display a letter from the A group to the D group.

1.3.4 time settings

Host:

You can be set in the settime option for OLED or the PC tool can send serial instruction settings

1.3.5 Login password settings

The initial password is "0000" press 4 SET to enter the background management system.

You can also be in OLED password settings or PC tool can send serial instruction settings

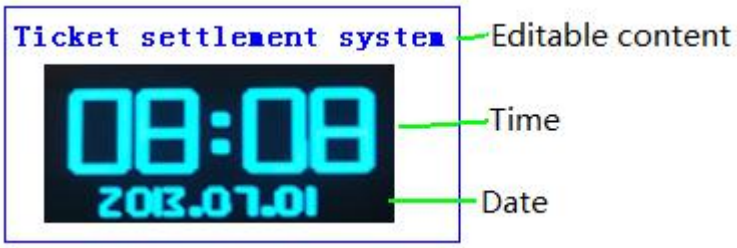
1.4 Description of the PC-terminal serial port communication software

1.4.1 over the PC tool issued instructions to set the time, scroll bar, login password, etc., through USB to micro data cable, search for serial communication assistant on the Internet.Host communication hardware chip CH340E,WIN10 system without mounting drive (serial port port rate: 115200)

Project	Directive format	Description
Set the scroll bar	rolling "abcde(any word)"	Be sure to have quotation marks
Set time	time 2021 9 22 14 11 56	
Set the password	password 1 2 3 4	The password is 1 2 3 4

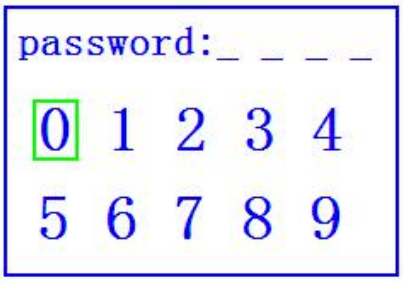
1.4 Description of the host OLCD screen interaction interface

1.4.1 LCD interaction interface description: After turning on, enter the first main interface as follows: scroll to show the ticket settlement system, (ticket settlement system is only tentative content, entry is actually the address.It can later be changed to a certain area address through the computer serial port.)

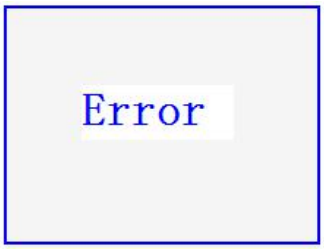


1.4.2 There are 4 keys on the host: set, add, sub, print
Short press set and enter the operation interface below.Press the 4 set button to enter the background management system.
The initial password is 0000
Select the number through Add and sub key, and provide the password error words after you enter the 4-bit password.

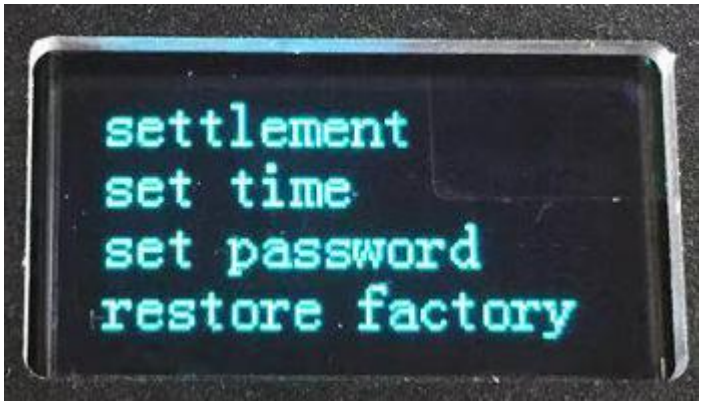
You can go back to the main interface by pressing the Add button, and sub back to the upper interface.



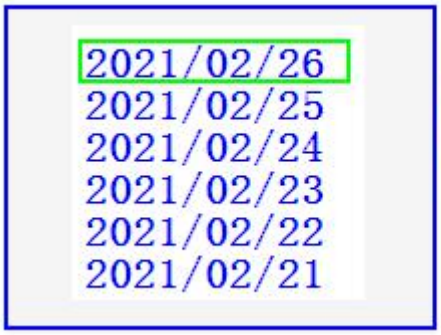
The add and sub buttons are used to move, and the set button is used to confirm



1.4.3 After the password is correct, enter the settings menu in the following table (1. Settlement 2. Settings Time 3. Set the password 4. Restore the factory)

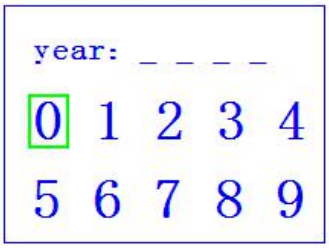


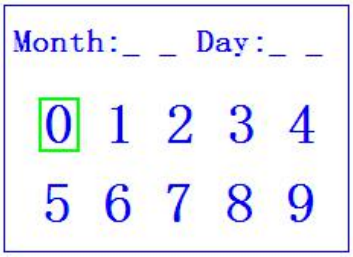
1.4.4 After pressing the set button for settling all interface options, enter the selected print time period below.The settlement flow of the bill is to summarize all lines after 11:59 p. m.Time arranges storage before and back.In theory, the space can save the data for about 1 month.

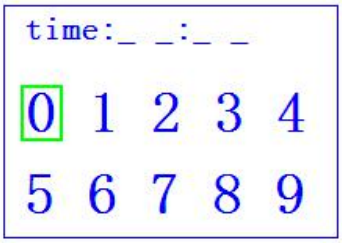


Time is arranged from front to back

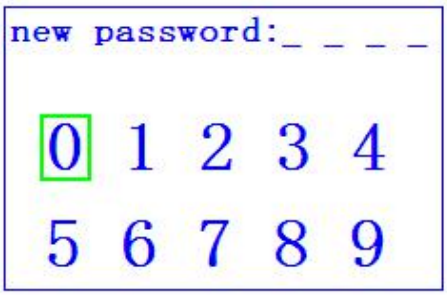
1.4.5 After pressing the set button in the setting time interface, enter the annual date and time setting. After losing the minutes, the data will be returned to the main interface. You can see whether the time has been adjusted.(This time can also be adjusted through the computer)



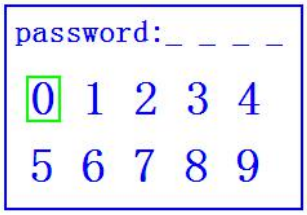




1.4.6 After setting the password interface, the new password content should be input after pressing the set key: press the fourth position, return to the main interface and enter the new password.(This password can also be adjusted through the computer)



1.4.7 In the factory setting interface, enter the administrator password after entering the set button. The main purpose is to clean up all the data, login password to the original 0000, and the address to the original ticket settlement system.(Restore factory can also be sent through the computer serial command to reset) the administrator password is correct or wrong will be prompted.

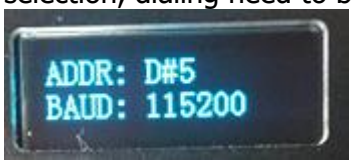


The add and sub buttons are used to move, and the set button is used to confirm

1.4.8 All operating interfaces, if not at the main interface, return to the main interface after 30 seconds.

1.5 Description of OLCD screen

1.5.1 LCD interactive interface description: after turning on, enter the first main interface and display the main equipment address. If the network is successful, the code of D code will not be displayed. After the network is successful, the corresponding equipment network to which network host will be displayed.The first two bits are port rate: there are 3 choices 2400,9600,115200, the back 4 bits are address code, the address of the starting ID address is 01 to 16 represents code selection, dialing need to be effective.



1.5.2 A short press of print shows the current player input and the summary of the day.

1.6 Fault inspection

Whether the host's telephone interface with the printer is normal, whether the host short press print can hit the test page on the printer.

Whether the slave can join the network, whether the slave network indicator light is on.You can test for normal communication by printing the slave test page.

If they are imported, you can restore the factory setting through the host, restore the factory setting from the machine and then test products.

FCC Statement

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

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.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

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.