CL1306
Bus POS Specifications

Shenzhen Cardlan Technology Co,.Ltd

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1. Product appearance

Indicator light

Main display

Indicator light

Contactless IC card reading area

Figure 1 CL1306 Front view

公交刷卡机简易说明

(1) 扣款成功：蜜卡类语音，绿灯亮。

(2) 扣款不成功：报语音刷卡不成功，请重新刷卡，语音完后连续嘟嘟响，红灯亮。直到再次刷卡并且交易成功才能解除该报警号。

(3) 余额不多：蜜卡类语音，报语音余额不多请充值，绿灯亮。

(4) 余额不足：报语音余额不足，红灯亮。

(5) 无效卡：报语音无效卡，红灯亮。

Second display (reserved)

RS485/RS232

Power supply

GPS antenna interface(optional)

Power switch

Installation groove

Installation screw hole

Loudspeaker

Figure 2 CL1306 rear view

Up button

Down button

Ok button

Cancel button

Figure 3 CL1306 left side view

RJ45interface TCP/IP (reserved)

Audio output

USB

PSAM slot（2 standard，4

1 SIM slot

PS/2   AUDIO OUT   USB
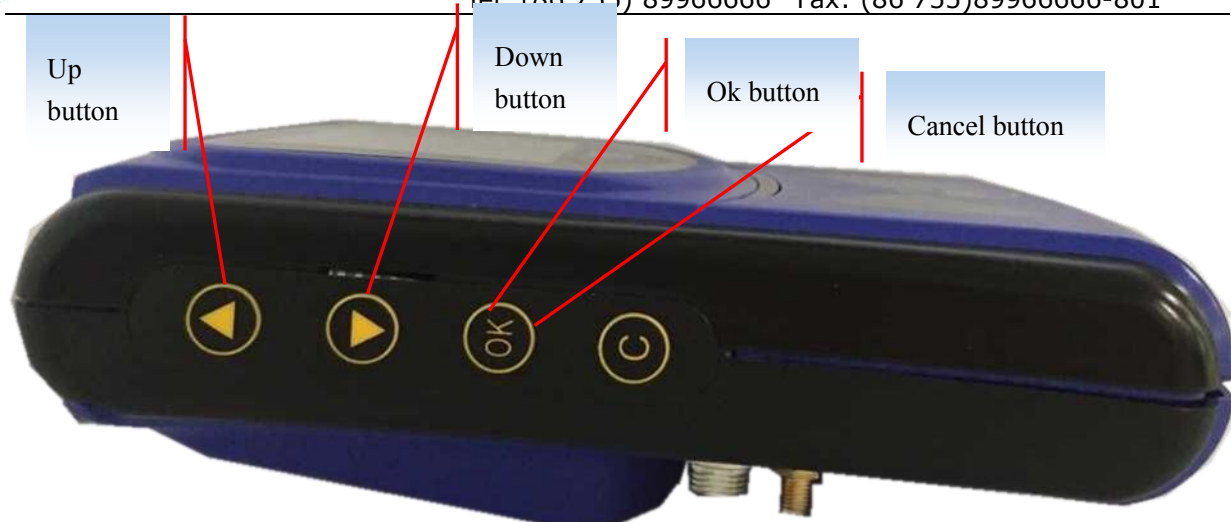
Figure 4 CL1306 right side view

2. Interface explanation

- Power supply interface：

  2 pin aviation plug

- RS232、RS485communication interface

  5pin aviation plug include RS232 and RS485 serial port communication

- Audio output interface：

  Its electric resistance is 8 ohms. Through the socker, the user can directly connect to a horn or the external acoustics with power.

- USB interface

  It supports U disk and USB keyboard. And it is used to upgrade and configure software and download related device files.

- PSAM card slot

  The PSAM card slots are used for key decryption when the customer uses CPU card for consumption.

- SIM card slot

  It is used for GPRS wireless communication, the SIM card slot is mainly used to achieve data transmission between the bus card reader and server when insert a SIM card.

3. Application Environment

CL1306 bus pos can support RFID card, with GPS positioning module, support GPRS wireless communication etc. Can be used for electronic payment or card validation in following field:

- Public transport IC card payment
- Scenic spots/amusement park card payment
- Employee shuttle bus card validation
- Safety school bus IC card system

4. Function and features

- Support wireless communication, remote connect to server management software to realize real time time-revision, black-list downloading and data collection etc.

- Support data real time uploading or USB local data collection

- Support live voice prompts, supports 15 kinds of voice prompts: such as "student card", "employee card"

- Support consumption details and statistics query, according to card No., time, operator No., etc.

5. Technical parameters

Name：	Bus POS terminal
Operating System：	Linux2.6.17.14
CPU：	ARM9 core processor，240Mhz
Memory：	32MBytes SDRAM，128MB NANDFlash main memory
Memory Function	

Data Capacity：	259840 pcs of detailed data for console storage, unlimited data at GPRS storage
Blacklist：	91,880,000 pcs (download from PC with USB)
Working Environment	
Working Temperature:	-40℃~75℃
Storage Temperature:	-40℃~85℃
Working Humidity:	0-90%（non-condensing）
Physical Parameter	
Dimension:	151x195x48mm
Housing material:	Engineering plastics
LCD Display	
Display：	3.5 inch LCD display, 320x240
Indicator light：	Red and green
Keypad Function	
keypad：	4 operation button, on the rear side of the machine
Scanner:	Barcode 1D&2D funciton
Voice Prompt	
Sound Prompt：	Buzzer、Single channel loudspeaker
Voice Prompt：	16KHz,16bit single channel voice prompt
Power Supply Specification	
Working Voltage：	DC 8V-50V
RFID Function	
Support Type：	ISO-14443 Type A/B

Reading Distance：	0~50mm
Working Frequency：	13.56Mhz
Card Capacity：	91,880,000 pcs
Card Type：	MiFare Classic, MiFare Desfire, support CPU card
Interface	
Communication Interface：	RS232,USB
Printing Function	
Printing module：	Support external POS58printer (need 5pinaviation plug turn DB9 cable)
Paper Width：	58mm
Positioning Function	
Position way：	GPS positioning
Working Mode	
Working Mode：	Stand-alone or connect to server
Power Consumption	
Power Consumption:	≤10 W
Communication Function	
Wireless Communication	Support GPRS module
Warning Function	
Warning Function	Warning when card balance is insufficient or data memory is full
Data Collection Function	
Collection mode	GPRS wireless collection and USB local collection

2G:	
Support Network:	GPRS
Support Band:	GPRS850, GPRS1900
Modulation:	GPRS: GMSK
Transmit Frequency:	GPRS850: 824.20MHz~848.80MHz GPRS1900: 1850.20MHz~1909.80MHz
Receive Frequency:	GPRS850: 869.20MHz~893.80MHz GPRS1900: 1930.20MHz~1989.80MHz
GPRS Class:	12
EGPRS Class:	-
Antenna type:	Integral Antenna
Antenna gain:	GPRS850: 0dBi GPRS1900: 0dBi
Hardware version:	V03
Software version:	V030-TEST
NFC	
Modulation:	FSK
Operation frequency:	13.56MHz
Channel number:	1
Antenna type:	Integral Antenna

----END----

FCC Statement

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.

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FCC RF Exposure Information and Statement

This device must be installed and operated with a minimum distance of 20 cm between the radiator and user body.