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CL-A0618B Smart Bus Validator Specification



Shenzhen Cardlan Technology

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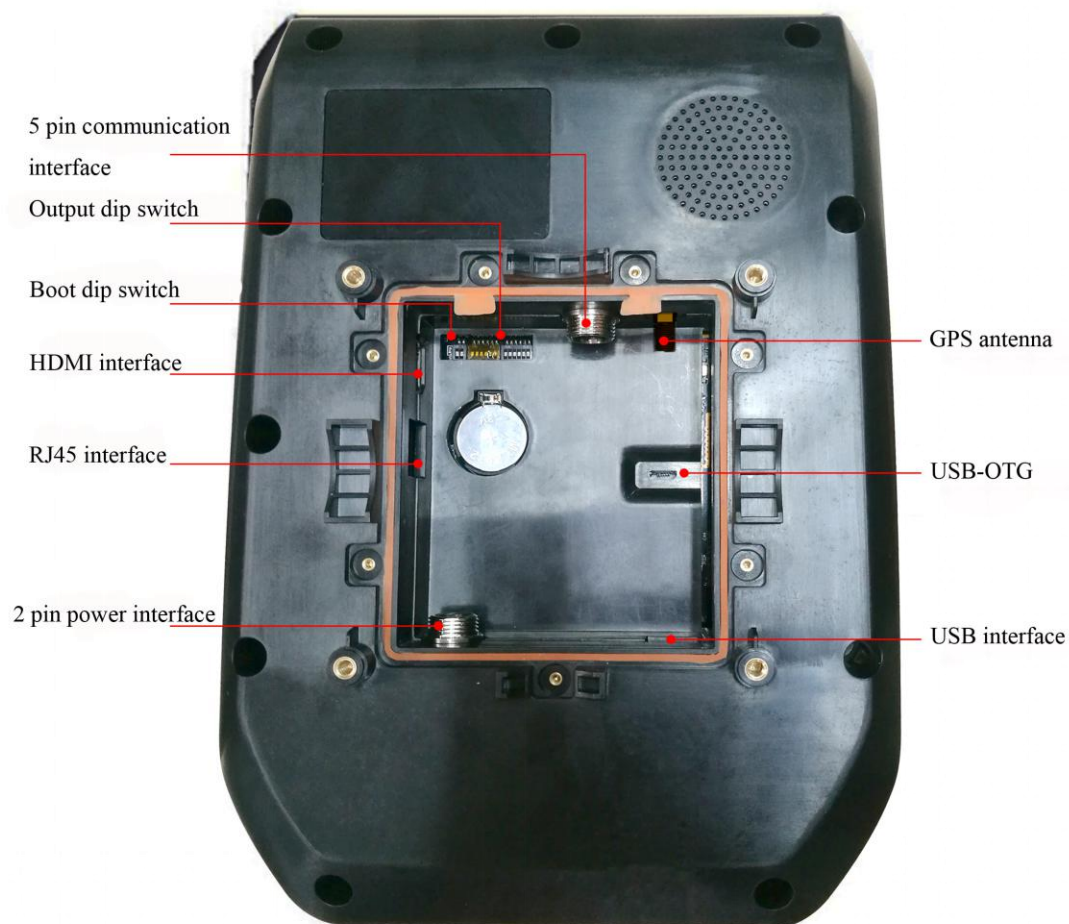
1. Product appearance



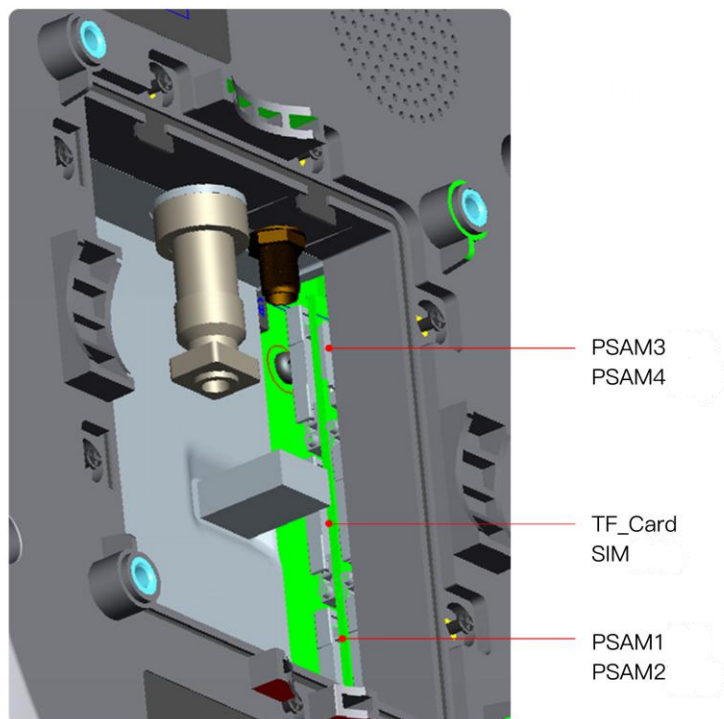
1 CL-A0618 Front view



2 CL-A0618 rear view



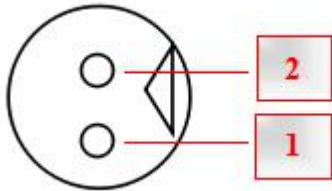
3 CL-A0618 interface 1



4 CL-A0618 interface

2.Interface explanation

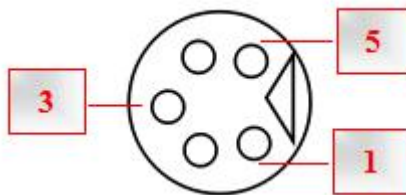
- Power supply interface 2 pin aviation plug
- 1PIN:VCC, 2PIN:GND



5 CL-A0618 power plug

5 pin aviation plug

- A、B、C、D、E、5 signal configuration, customer can choose the configuration according to the application environment, default is type A



Output table

	A	B	C	D	E
1	GND	GND	GND	GND	GND
2	RS485_B-	RS485_B-	RS232_TX	SW1-2	SW1-2
3	RS485_A+	RS485_A+	RS232_RX	SW1-1	SW1-1
4	RS232_TX	KCON_IN	KCON_IN	4148_TX0	KCON_IN
5	RS232_RX	KCON_OUT	KCON_OUT	4148_RX0	KCON_OUT

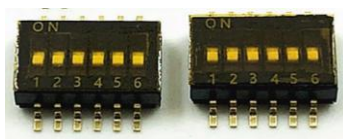
A is the default setting

6 CL-A0618 5 pin aviation plug



2.2: A、B、C、D、E、 Choose a configuration and set on main board

Dip switch setting table



	A	B	C	D	E
1	0	1	1	0	1
2	0	1	1	0	1
3	0	0	0	1	1
4	0	0	0	1	1
5	0	0	0	1	0
6	0	0	0	1	0
7	1	1	0	0	0
8	1	1	0	0	0
9	1	0	0	0	0
10	1	0	0	0	0
11	0	0	1	0	0
12	0	0	1	0	0

7 CL-A0618 dip switch configuration

- GPS antenna

External sucker antenna

- USB-HOST port

This USB-HOST interface is a USB host device that supports U disk and USB keyboard for upgrading configuration software and downloading related device files. The maximum output is 5V/500mA.

- PSAM card slot

CL-A0618 has 4 PSAM slot, support encryption with CPU card payment

- SIM card slot

CL-0618 has 1 SIM card slot, mainly used for 4G wireless communication, insert SIM card , realize remote data communication.



2. Application

environment

CL-A0618 smart bus validator can support RFID card, with GPS positioning module, support GPRS, WIFI wireless communication etc. Can be used for electronic payment or card validation in following field:

- Public transport fare collection
- Scenic spots/amusement park card payment
- Balance inquiry
- Employee shuttle bus card validation
- Safety school bus system

3. Functional 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.

4. Technical parameter

Name :	Smart Bus Validator
Operating System :	Android5.1
CPU :	Quad-core cortex-a9 main frequency 1.4GHz、 integrated GPU Mali-400 MP4



RAM	DDR3 1G (default)
Memory :	eMMC 16G、Max support 64G TF card
Memory Function	
Data Capacity :	more than 2 million detailed data for console storage, extensible
Blacklist :	Two hundred million, extensible, more with TF card
Working Environment	
Working Temperature:	-25℃~65℃
Storage Temperature:	-40℃~85℃
Working Humidity:	0-90% (non-condensing)
Physical Parameter	
Dimension:	240x170x74.7mm
Housing material:	Engineering plastics
LCD Display	
Display :	5 inch LCD display, 800*480
Indicator light :	Red and green
Camera	
Scanning:	Wide angel/QR /customized
Distance:	0CM -15CM
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 :	Can read and write ISO14443 TYPE A\B Electronic tag
Reading Distance :	0~50mm
Working Frequency :	13.56Mhz
Card Capacity :	5,000,000 pcs
Card Type :	Mifare 1 card, CPU card, UnionPay IC card
Interface	
Communication Interface :	USB-HOST、USB-OTG、RS485 or TTL-232
Reserved interface:	HDMI
Printing Function	
Printing module :	Support external POS58printer (need 5pinaviation plug turn DB9 cable)
Width of receipt: :	58mm
Positioning Function	
Position way :	GPS, Beidou positioning (Optional)
Working Mode	
Working Mode :	Stand-alone or connect to server
Power Consumption	
Power Consumption:	≤10 W
Communication Function	
Wireless Communication	GPRS, 3G, 4G optional
WIFI	Support 802.11n/b/g standard, 150Mbps, 2.4Ghz
Warning Function	
Warning Function	Warning when card balance is insufficient or data memory is full
Data Collection Function	
Collection mode	2G、3G、4G and USB collection、WIF and Bluetooth optional

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