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CL-A0618D Smart Bus Validator Specification



Shenzhen Cardlan Technology Co.,Ltd

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1. Product appearance



1 CL-A0618D Front view(Real picture)

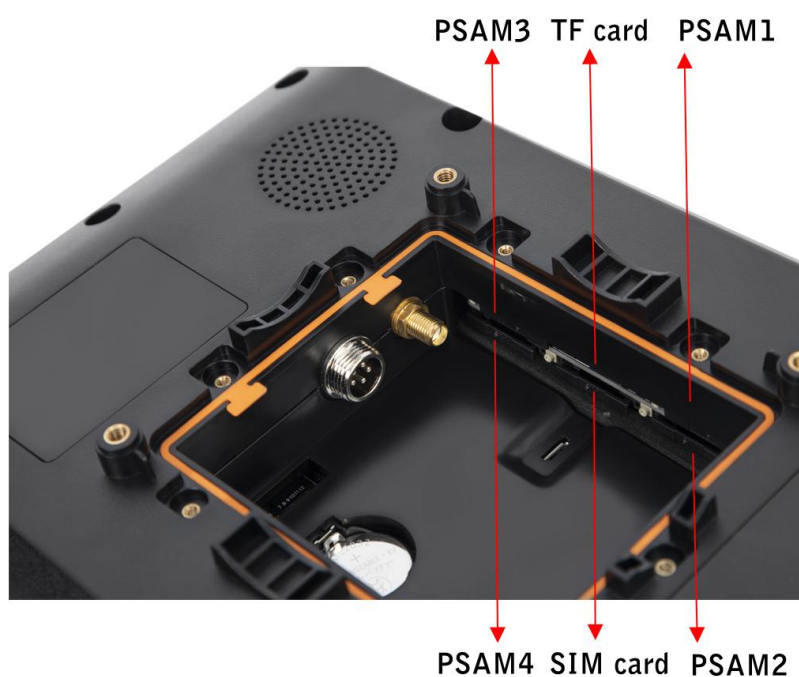


2 CL-A0618D rear view



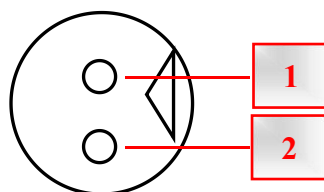
3 CL-A0618D interface

4 CL-A0618D interface 2



2. Interface explanation

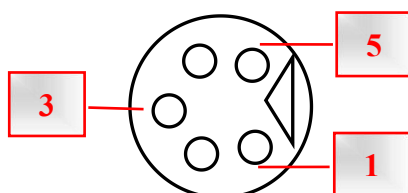
- Power supply interface:
- 2-core aviation seat: power interface:
- 1PIN: VCC, 2PIN: GND, the serial number of the factory-equipped power cord is marked.



5 CL-A0618D power plug

5 pin aviation plug: communication port

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

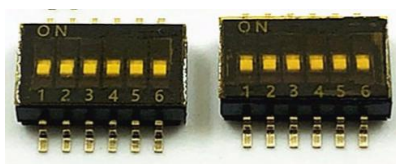


	A	B	C	D	E	F
1	GND	GND	GND	GND	GND	GND
2	RS485_B-	RS485_B-	RS232_TX	SW1-2	SW1-2	
3	RS485_A+	RS485_A+	RS232_RX	SW1-1	SW1-1	
4	RS232_TX	KCON_IN	KCON_IN	4148_TX0	KCON_IN	
5	RS232_RX	KCON_OUT	KCON_OUT	4148_RX0	KCON_OUT	

6 CL-A0618D 5 pin aviation plug

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

	A	B	C	D	E	F
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-A0618D dial switch configuration

- GPS antenna

External GPS 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.

- USB-OTG port
- USB-DEBUG port
- PSAM card slot

CL-A0618D has 4 PSAM slot, support encryption with CPU card payment

- SIM card slot

CL-A0618 has 1 SIM card slot, mainly used for 4G wireless communication, insert SIM card, realize remote data communication.

3. Application environment

CL-A0618D smart bus validator can support RFID card, with GPS positioning module and qr code scanner, support 4G, 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

4. 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.

5. Technical parameter

Name :	Smart Bus Validator- CL-A0618D
Operating System :	Android 10
CPU :	UNISOC 8581/ eight-core, 64BIT ARM Cortex-A53 CPU
GPU	GE8322 GPU, work frequency at 550 MHz
RAM	2 GB LPDDR4X (typical)
Memory:	eMMC 16G (typical), maximum support TF card expansion 64G
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, 720*1280
Indicator light :	Red and Green
Camera	
Scanning:	Wide angel/QR /customized
Distance:	0CM -15CM / 0CM -90CM
Voice Prompt	
Sound Prompt :	Buzzer、 Single channel loudspeaker
Voice Prompt :	16KHz,16bit single channel voice prompt
Power Supply Specification	
Audio	8Ω ,2W
Working Voltage :	DC 12V-48V
RFID Function	
Support Type :	Can read and write ISO14443 TYPE A\B Electronic tag/Cards
Reading Distance :	0~40mm
Working Frequency :	13.56Mhz
Card Capacity :	5,000,000 pcs



Card Type :	Mifare 1 card, support CPU card and UnionPay IC card MIFARE Classic (MF1 S50 & MF1 S70) MIFARE Ultralight (MIFARE Ultralight, MIFARE Ultralight EV1, MIFARE Ultralight C) MIFARE DESFire (MIFARE DESFire, MIFARE DESFire EV1, MIFARE DESFire EV2) MIFARE Plus, Java card
Interface	
Communication Interface :	USB-HOST、USB-OTG、RS485 or RS-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	WIFI,GPRS,3G,4G optional,Compatible with different global regions.
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 Ethernet Port- Optional : 1x Built-in 10/100-base-T Ethernet

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