

CL-A818 Smart Bus Validator Specification

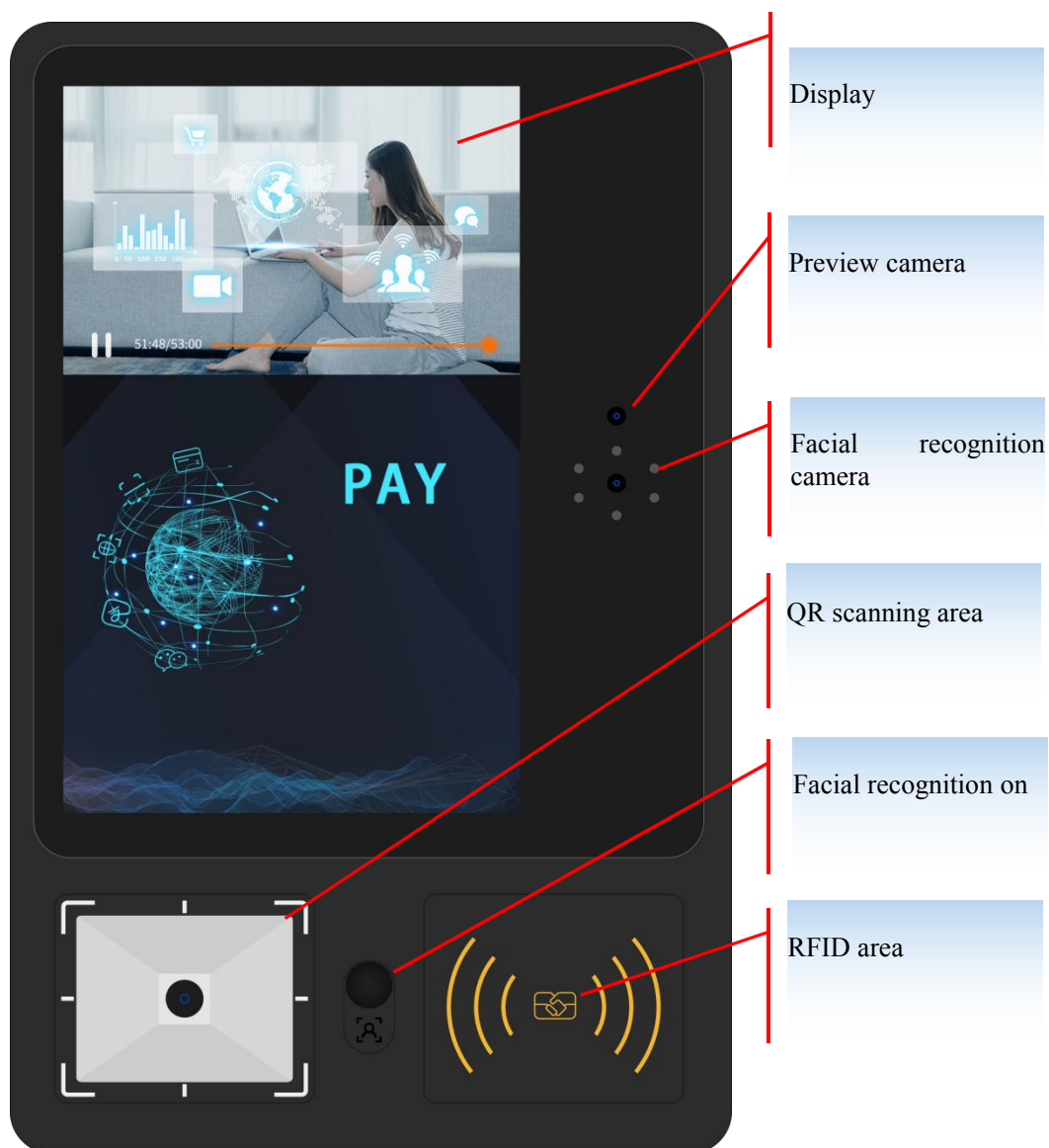


Shenzhen Cardlan Technology

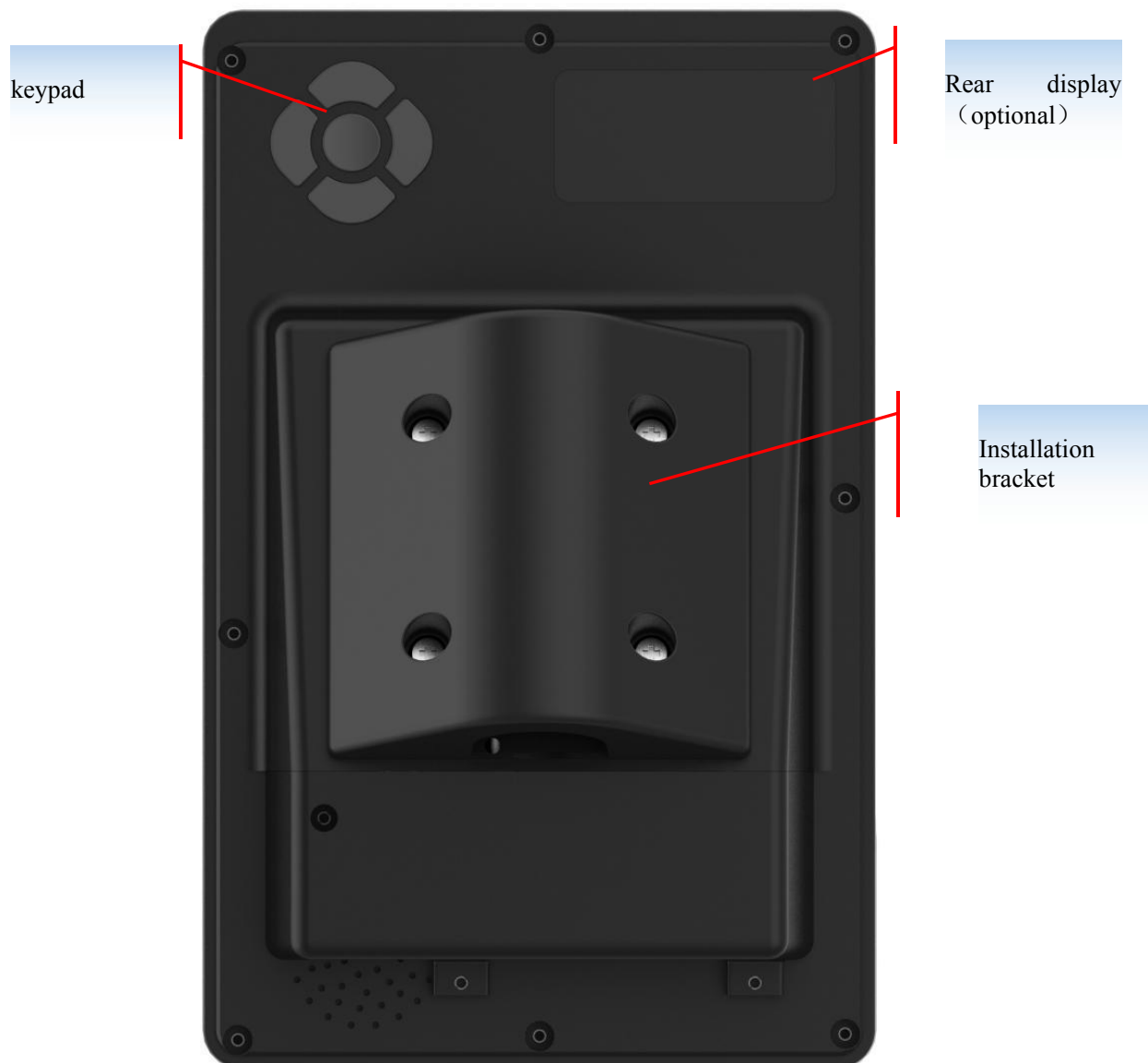
Contents

CONTENTS.....	1
1. PRODUCT APPEARANCE.....	2
1. INTERFACE EXPLANATION.....	5
2. APPLICATION ENVIRONMENT.....	7
3. FUNCTIONAL FEATURES.....	8
4. TECHNICAL PARAMETER.....	8

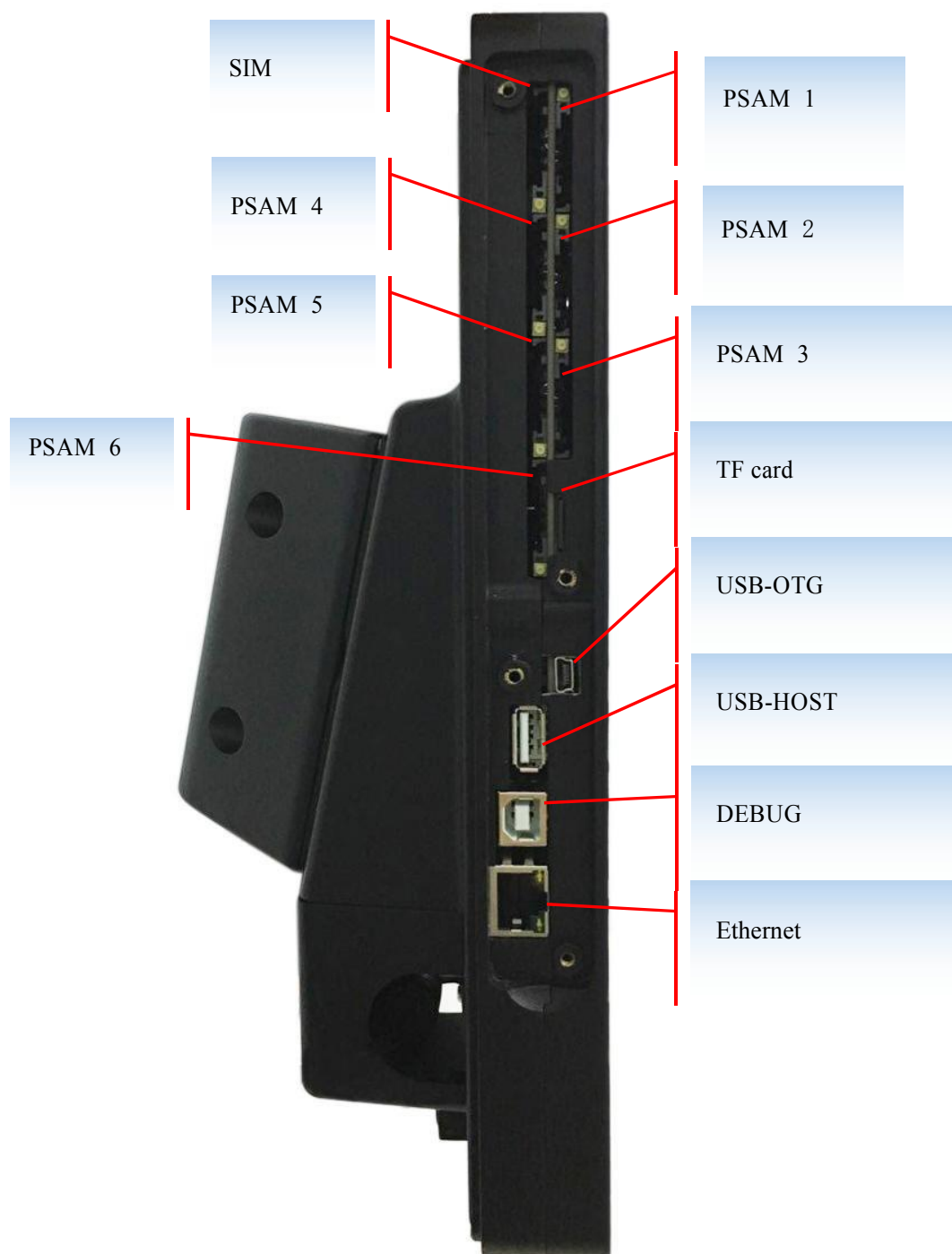
1. Product appearance



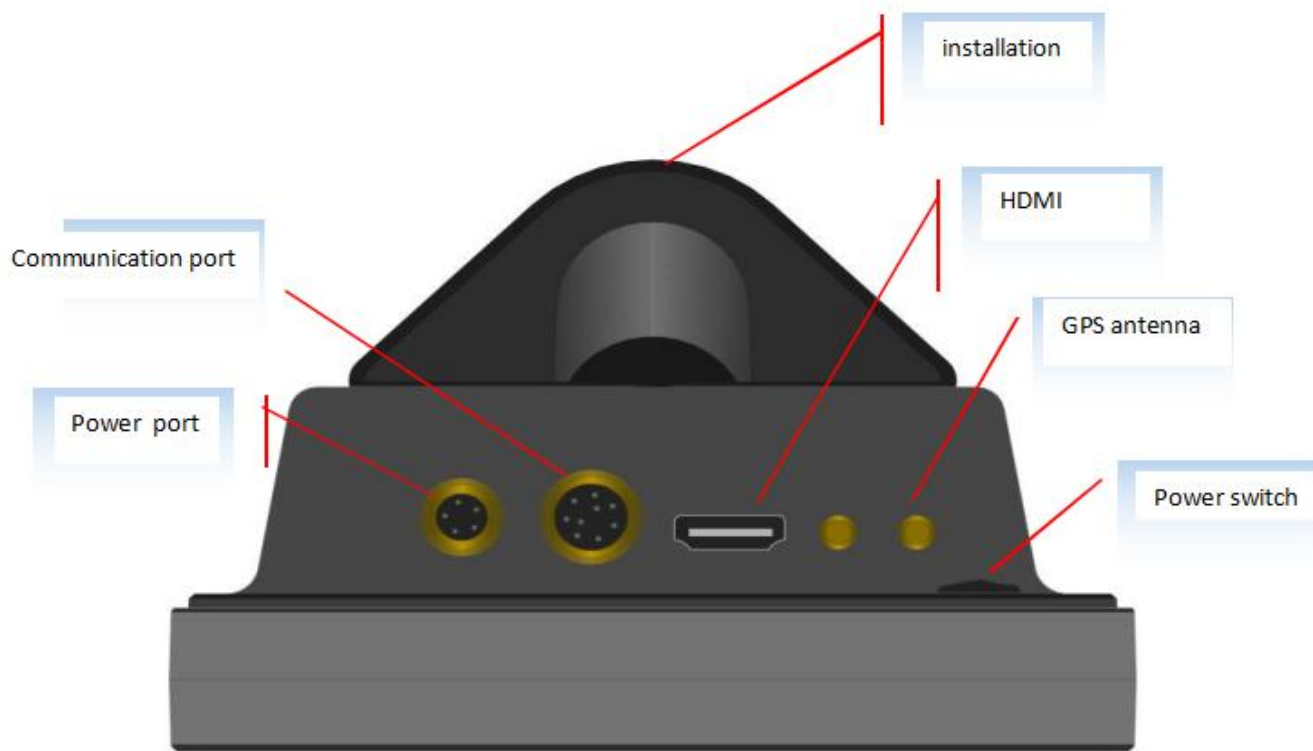
1 CL-A818 Front view



2 CL-A0818 rear view1



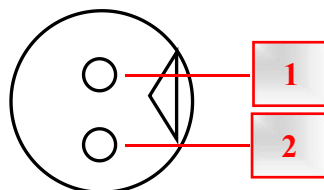
3 CL-A818 side view



4 CL-A818 bottom view

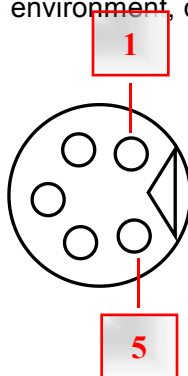
1. Interface explanation

- Power supply interface:
- 2 pin aviation plug, 1 positive, 2, negative



5 pin aviation plug

- 2.1: A、B、C、D、E、F, 6 signal configuration, customer can choose the configuration according to the application environment, default is type A



输出配置表						
	A	B	C	D	E	F
1	GND	GND	GND	GND	GND	GND
2	RS485_B-	TXD2	RS485_B-	TXD2	SW1-2	SW1-2
3	RS485_A+	RXD2	RS485_A+	RXD2	SW1-1	SW1-1
4	SW2-2	SW2-2	KCON_IN	KCON_IN	SW2-2	KCON_IN
5	SW2-1	SW2-1	KCON_OUT	KCON_OUT	SW2-1	KCON_OUT

6 CL-A0618 5 pin aviation plug

- 2.2: A、B、C、D、E、F, Choose a configuration and set on mainboard

拨码开关配置表						
	A	B	C	D	E	F
1	0	0	1	1	0	1
2	0	0	1	1	0	1
3	0	0	0	0	1	1
4	0	0	0	0	1	1
5	1	1	0	0	1	0
6	1	1	0	0	1	0
7	1	0	1	0	0	0
8	1	0	1	0	0	0
9	0	1	0	1	0	0
10	0	1	0	1	0	0

7 CL-A0618 dail switch configuration



- 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-A818B has 6 PSAM slot, support encryption with CPU card payment

- SIM card slot

CL-A818B 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)
Data storage:	eMMC 8G (default)、Max support 64G TF card
Storage	
Data Capacity:	more than 2 million detailed data for console storage, unlimited data with 4G connection
Blacklist:	2 hundred million, more with TF card
Working Environment	
Working Temperature:	-25℃~65℃
Storage Temperature:	-40℃~85℃
Working Humidity:	0-90% (non-condensing)
Physical Parameter	
Dimension:	270x169x72mm



Housing material:	Engineering plastics
LCD display	
Display:	8 inch TFT-LCD, 1280*800
Indicator light:	Red and green
Camera	
Scanning:	Wide angel/QR /customized
Distance:	3CM -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	
Support standard:	ISO-14443 Type A/B
Reading Distance:	0~50mm
Working Frequency:	13.56Mhz
Card Capacity:	5 million pcs
Card Type:	MiFare Classic, MiFare Desfire, support CPU card
Interface	
Communication Interface:	USB-HOST、 USB-OTG、 HDMI、 RS485 and TTL-232 optional
Multi screen interface	
Printing	
Printing module:	Support external POS58printer (need 5pinavation plug turn DB9 cable)
Paper Width:	58mm



深圳市卡联科技股份有限公司

SHENZHEN CARDLAN TECHNOLOGY CO., LTD

Address: Liantang Industrial Park, Kangzheng Road, Danzhutou, Nanwan Sub-district Office, Longgang District, Shenzhen City, China

Reyna: 008613058050470 Tel: 0086-755-89966666-137

Email: reyna@cardlangroup.com Skype: reyna, cardlan

Positioning Function	
Position way:	GPS、beidou (optional)
Working Mode	
Working Mode:	Stand-alone or connect to server
Power Consumption	
Power Consumption:	≤ 10 W
Communication Function	
Wireless Communication	2G、3G、4G
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

----END----