

CL-A818 F Smart Terminal Specification



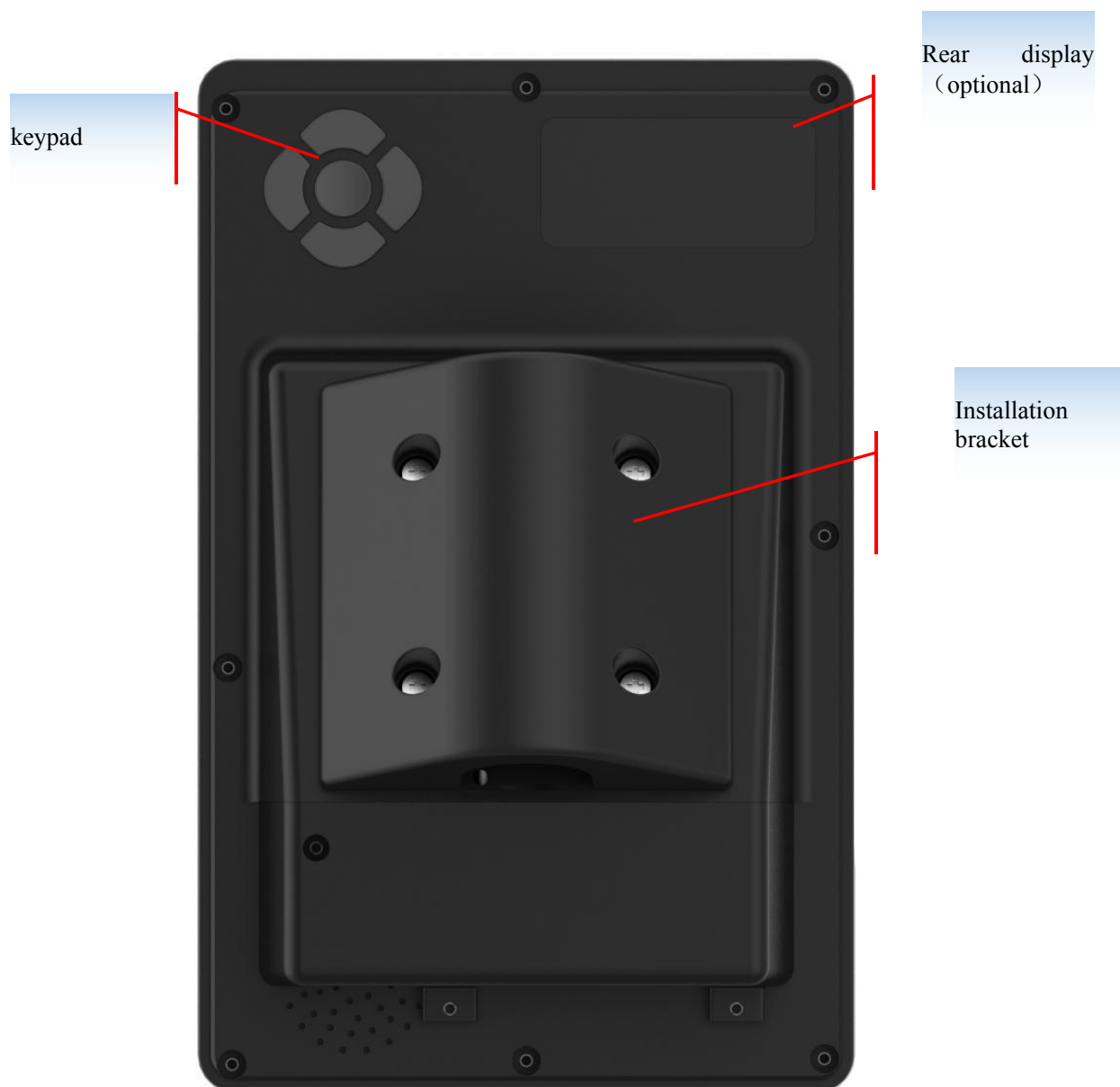
Shenzhen Cardlan Technology

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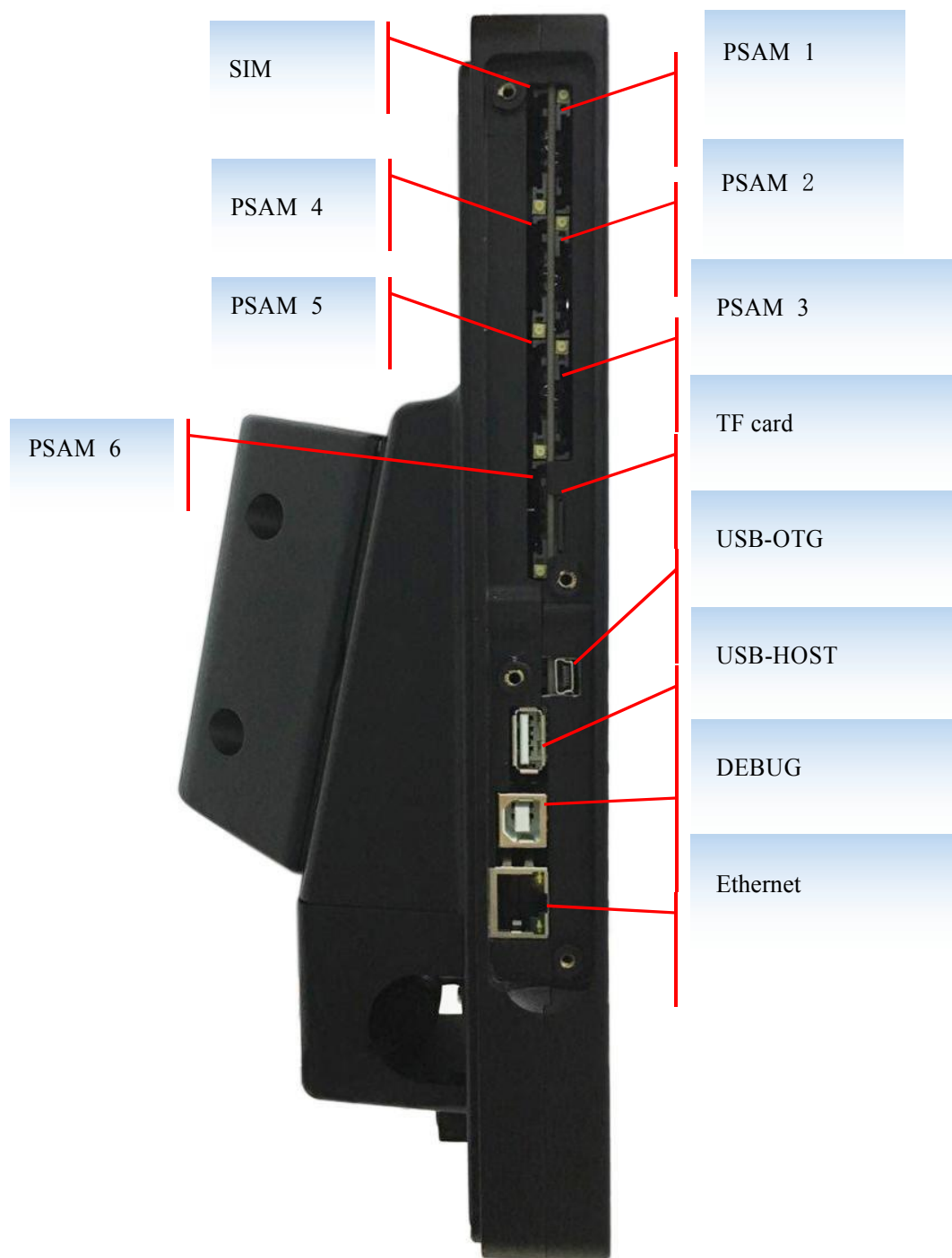
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1. Product appearance

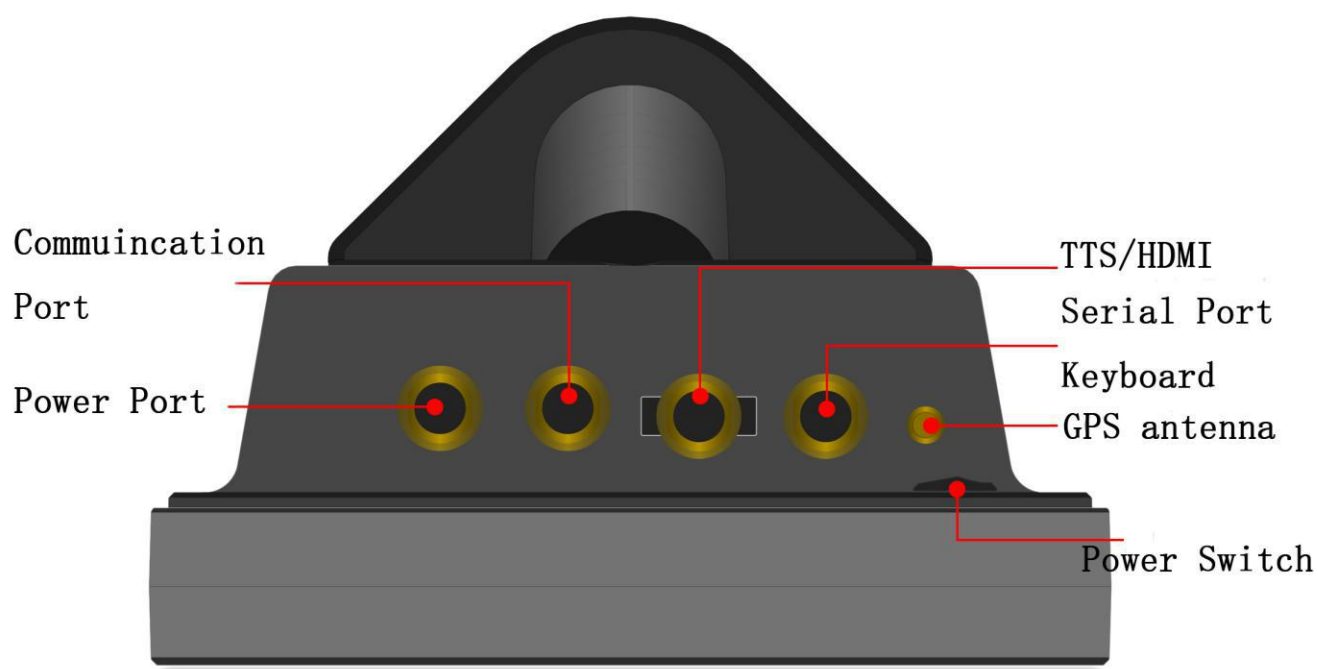




2 CL-A818F rear view



3 CL-A818 side view



4 CL-A818 bottom view

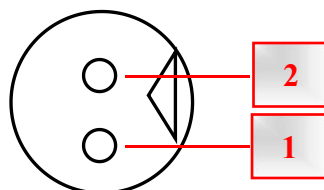


1. Interface explanation

- Power supply interface:

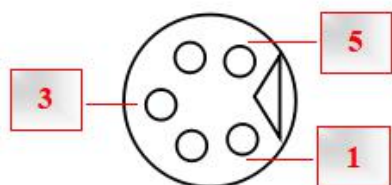
2 pin aviation plug, power supply interface

1PIN:VCC, 2PIN:GND



- 5 pin aviation plug

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



Output solution

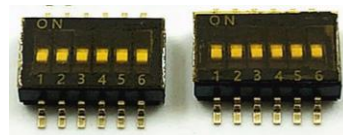
	A	B	C	D	E
1	GND	GND	GND	GND	GND
2	RS485_B-	RS485_B-	RS232_TX	SW1-2	SW1-2
3	RS485_A+	RS485_A+	RS232_RX	SW1-1	SW1-1
4	RS232_TX	KCON_IN	KCON_IN	SW2-2	KCON_IN
5	RS232_RX	KCON_OUT	KCON_OUT	SW2-1	KCON_OUT

A is the default setting

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

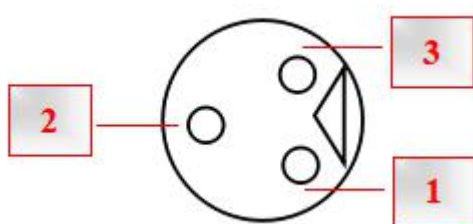
Dip switch configuration table

	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



- 3 pin aviation plug(TTS voice) /HDMI (default HDMI)

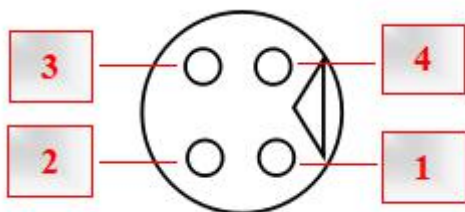
TTS voice interface pin define: 1PIN: R , 2PIN: GND , 3PIN: L。



HDMI interface: Full digital video and sound sending interface。

- 4pin aviation plug: serial port keyboard

Pin define: 1PIN: 5V , 2PIN: RX , 3PIN: TX , 4PIN: GND。



- GPS antenna

External GPS 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-A818F Max support 6 PSAM slot, support encryption with CPU card payment

- SIM card slot

CL-A818F has 1 SIM card slot, mainly used for 4G wireless communication, insert SIM card , realize remote data communication.

2. Application environment

CL-A818 F smart bus validator can support RFID card, QR scanning with GPS positioning module, 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
- Industrial park



3. Functional features

- Support face recognition: face information can be recognized through the camera for consumption and other operations;(Optional)
- Support temperature measurement: the temperature of the human body can be measured through the temperature recognition module and displayed on the interface of the intelligent communication terminal;(Optional)
- Support wireless communication transmission: connect to computer management software through the communication module to perform operations such as proofreading time, downloading blacklists, and collecting data;
- Terminal with wireless communication module can realize real-time data upload, and terminal without wireless communication module can upload transaction records through U disk or USB connection.
- Query consumption details: query consumption details records on the terminal based on card number, time, operator number, etc .;
- Consumption data Statistic : statistics of consumption records according to card number, time, operator number and other conditions.etc.

4. Technical parameter

Name:	Smart Terminal
Operating System:	Android7.1
CPU:	Dual Cortex-A72 large core + four Cortex-A53 small core structure and Mali T864
RAM:	DDR3 4G
Data storage:	eMMC 16G (default) 、Max support TF card expend to 64G
Storage	
Data Capacity:	more than 2 million detailed data for console storage, extensible
Blacklist:	2 hundred million, extensible



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
Facial recognition	Binocular, wide dynamic face recognition camera, default feature library capacity: 20,000
Voice Prompt	
Sound Prompt:	Buzzer、Single channel loudspeaker
Voice Prompt:	16KHz,16bit single channel voice prompt
Temperature detection	
Detection accuracy and distance	Accuracy: ± 0.3 Distance: 5cm, 75cm (default), 1.2m.
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 Type:	MiFare Classic, CPU card
Scanning Function	
Support Type	Support 1D code and 2D code
Face Recognition	
Face recognition library	Front-end algorithm support 1:20000
Interface	
Communication Interface:	USB-HOST、USB-OTG、RS485 and TTL-232 optional
Multi-screen display interface	HDMI(optional)
Positioning Function	
Position way:	GPS、beidou (optional)
Working Mode	
Working Mode:	Stand-alone or connect to server
Power Consumption	
Power Consumption:	≤15 W
Warning Function	
Warning Function	Warning when card balance is insufficient or data memory is full
Wireless Communication	
Communication mode	2G、3G、4G and USB collection,(WIF and bluetooth optional)
Main features	Android 7.1 4G network, Ethernet, WIFI, Bluetooth, scan code, face recognition, temperature measurement

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