

# CL-A0618A Smart terminal Specification



**Shenzhen Cardlan Technology**

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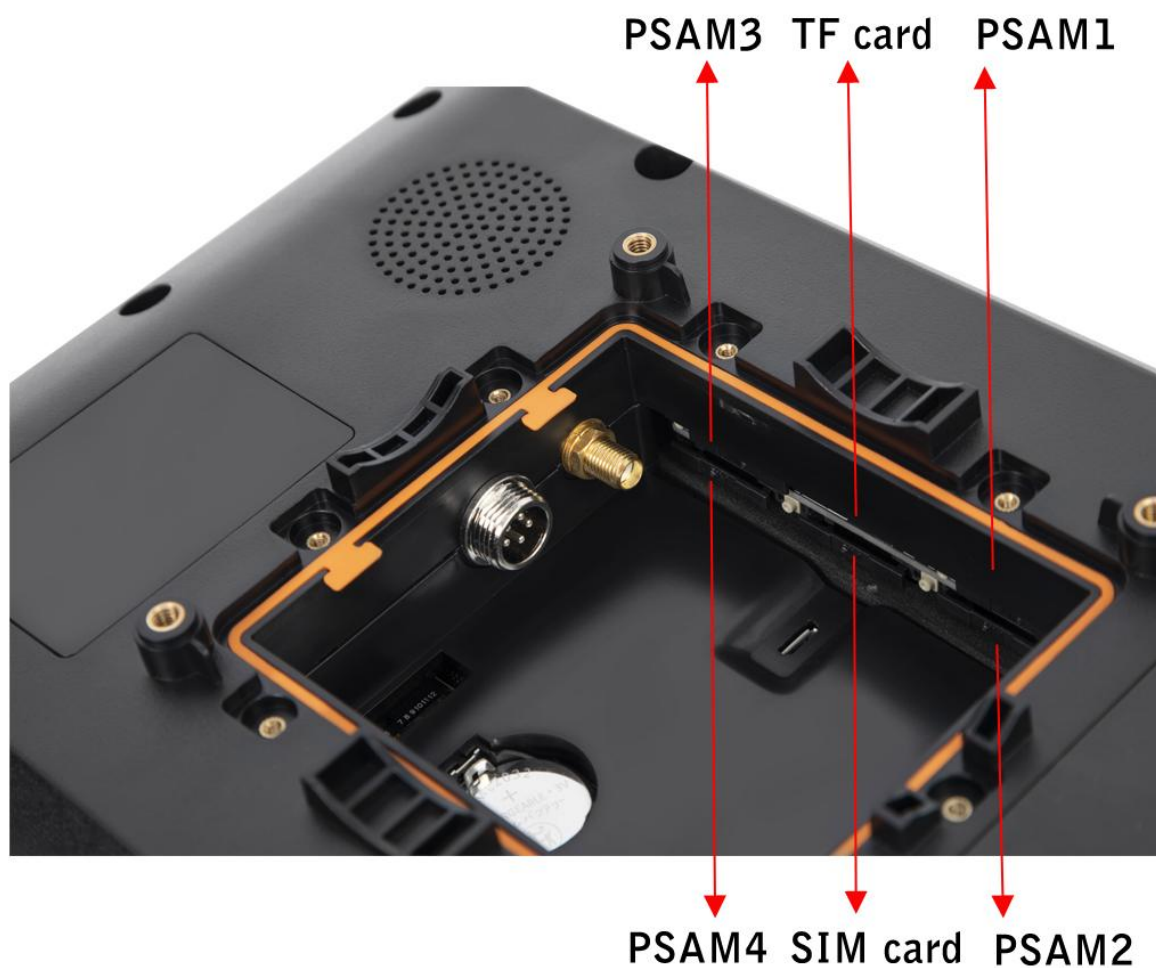
## 1. Product appearance



1 CL-A0618A Front view



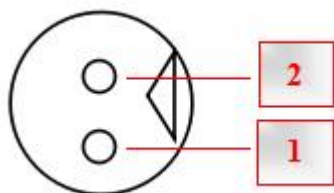
2 CL-A061A8 rear view



3 CL-A0618A interface 1

## 2. Interface explanation

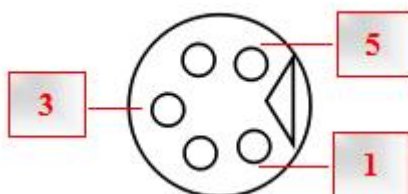
- Power supply interface 2 pin aviation plug
- 1PIN:VCC, 2PIN:GND



5 CL-A0618 power plug

5 pin aviation plug

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

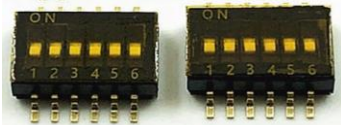


Output configuration table

	A	B	C	D	E
1	GND	GND	GND	GND	GND
2	RS485_D-	RS232_TX	RS485_D-	SW1-2	SW1-2
3	RS485_D+	RS232_RX	RS485_D+	SW1-1	SW1-1
4	DEBUG_TXD	DEBUG_TXD	RS232_TX	KCON_IN	DEBUG_TXD
5	DEBUG_RXD	DEBUG_RXD	RS232_RX	KCON_OUT	DEBUG_RXD

CL-A0618A 5 pin aviation plug

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



**Dip Switch Configuration Table**

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

7 CL-A0618A dial 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.

- 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.



### 3. Application environment

CL-A0618A smart bus validator can support RFID card and QR code, 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

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

### 5. Technical parameter

Name :	Smart terminal
Operating System :	Linux2.6
CPU :	ARM9 core processor , 240Mhz
RAM	32MBytes SDRAM



Storage :	512 MB NANDFlash main memory(optional 128MB/256MB)), support TF card, Max 32G
<b>Memory Function</b>	
Data Capacity :	One hundred thousand pcs of detailed data for console storage(configurable)
Blacklist :	Two hundred million, download from USB flash disk
<b>Working Environment</b>	
Working Temperature:	-20°C~65°C
Storage Temperature:	-40°C~85°C
Working Humidity:	0-90% ( non-condensing )
<b>Physical Parameter</b>	
Dimension:	240x170x74.7mm
Housing material:	Engineering plastics
<b>LCD Display</b>	
Display :	5 inch LCD display, 800*480
Indicator light :	Red and green
<b>Camera</b>	
Scanning:	Wide angel/QR /customized
Distance:	0CM -15CM
<b>Voice Prompt</b>	
Sound Prompt :	Buzzer、 Single channel loudspeaker
Voice Prompt :	16KHz,16bit single channel voice prompt
<b>Power Supply Specification</b>	
Working Voltage :	DC 12V-48V
<b>RFID Function</b>	
Support Type :	Can read and write ISO14443 TYPE A\B Electronic tag
Reading Distance :	0~40mm
Working Frequency :	13.56Mhz





Card Capacity :	99999999 pcs
Card Type :	Mifare 1 card, CPU card
<b>Interface</b>	
Communication Interface :	USB (Type A), USB (Micro 5pin), RS485 and TTL-232 (through transfer )
Reserved interface:	HDMI (Reserved)
<b>Printing Function</b>	
Printing module :	Support external POS58printer (need 5pinaviation plug turn DB9 cable)
Width of receipt: :	58mm
<b>Positioning Function</b>	
Position way :	GPS, Beidou positioning (Optional)
<b>Working Mode</b>	
Working Mode :	Stand-alone or connect to server
<b>Power Consumption</b>	
Power Consumption:	≤10 W
<b>Communication Function</b>	
Wireless Communication	GPRS,3G,4G optional, default 4G
WIFI (optional)	Support 802.11n/b/g standard,150Mbps,2.4Ghz (Optional)
<b>Warning Function</b>	
Warning Function	Warning when card balance is insufficient or data memory is full
<b>Data Collection Function</b>	
Management method	SAAS platform (tap card, scan QR code, etc.)
<b>Other Function (Optional)</b>	
Relay	Relay output for turnstile/gate control (Optional)

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