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CRT-603-P Product Manual



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History record

Version	Date	Content	issuer	Audit
1. 0. 0. 0	2016. 08. 10	First time release	库文敏	刘志军

CREATOR

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Chapter 1 Function Introduce

1.1 Product Introduce

CRT-603-P is a contactless card reader which conforms to QuickPass, VISA Paywave, Mastercard PayPass and EMV L1 certification. This reader module with an ISO7816 standard SAM slot supports to operate the card conforms to ISO14443-4 standard TYPE A and TYPE B, ISO14443-3 standard MIFARE series. It is widely apply in self-service vending machine, various bank card transaction terminals.

1.2 Product Feather

- Support ISO/IEC 14443 A;
- Support ISO/IEC 14443 B;
- Support ISO/IEC 18092;
- Support ISO/IEC 7816;
- Support NXP Mifare standard;
- Support Sony FeliCa standard;
- Support NFC P2P near field radio wireless communication;
- Auto-scan contactless card with function of multi card anti-collision;
- Support to read / write SAM card conform to ISO7816;
- Support on-line firmware upgrading (Manufacturers offers IAP tool) ;
- Certificate EMV L1& L2 PBOC 3.0 L1& L2 (PayPass ,PayWave ,QuickPass)

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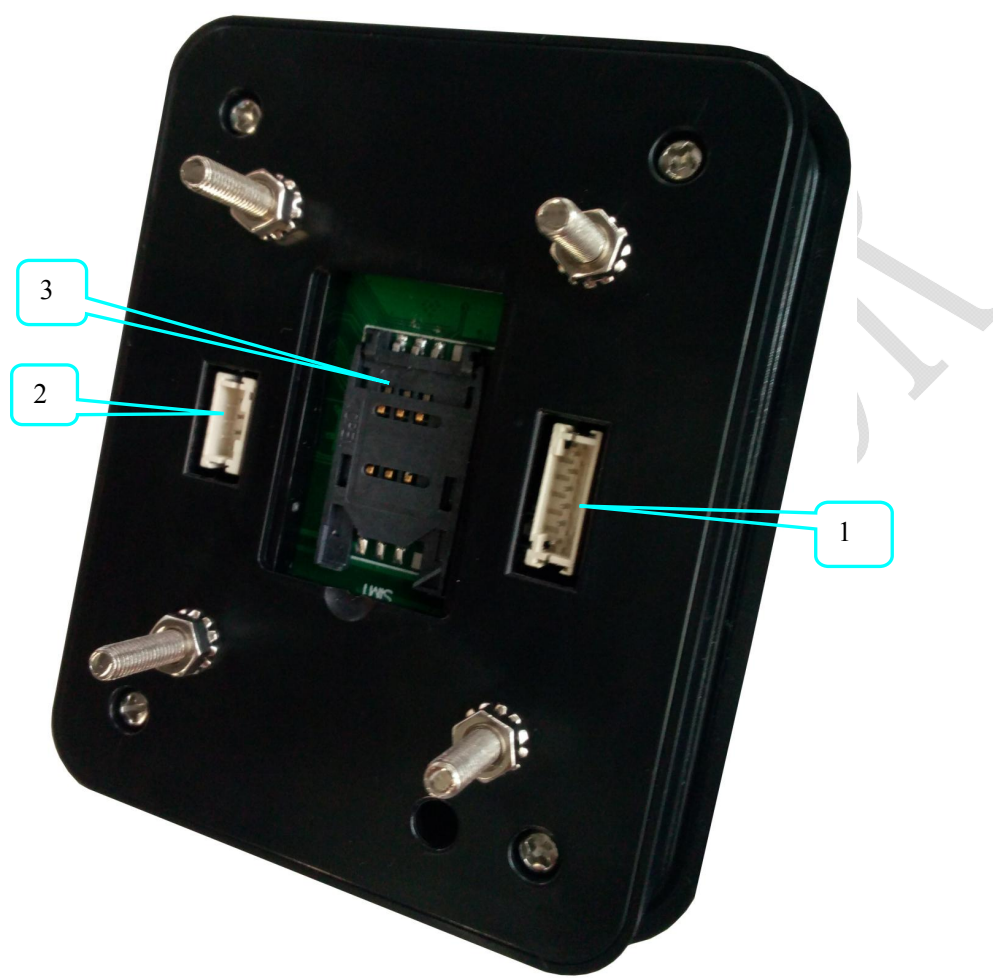
1.3 Technical Specification:

Product model	CRT-603-P
Work Frequency	72 MHz
Contactless work frequency	13.56 MHz
Operation voltage	DC 5.0V
Current consumption	Idle current:150mA, work current: 200mA, peak current:250mA
Operation distance	Max: 120mm typical: 60mm
Communication	RS-232C 3-line serial port
LED indication	Red, green, blue, orange indicators for dealing status
Buzzer warning	Active trading automatic reminder, 2.4Khz 85db.
Read function	Support NFC mode as following: 1.operate contactless card mode 2.P2P near field wireless communication mode
Support RF card type	Mifare Classic 1K(S50)
	Mifare Classic 4K(S70)
	Mifare Ultraligh;
	Type A CPU card
	Type B card
	Felica(support to read / write the public portion without encrypted only)
	TOPAZ card
	Support P2P with NFC Android mobile phone
Contactless L2	Conform EMV L1 , QPBOC L2, VISA Paywave kernel standard
SAM operation	Conform to ISO/IEC 7816 SAM card slot
Support systems	Windows XP、Windows 7、Windows 8, Linux
Operation Environment	-10℃ ~ 60℃, 0 ~ 95 % RH (no condense); humidity:5 to 95% RH (no condense) Ta <= 60℃;
Storage Environment	-40℃ ~ 70℃, 0 ~ 95 % RH (no condense); humidity:5 to 95% RH (no condense) Ta <= 70℃;

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1.4 The instruction of interface

1. The instruction of main interface on main board instruction



S/N	Instruction	Type of parts	Remark
1	6PIN-RS232	Creator standard: CRT-603-CZ7 standard serial port cable	For communication
2	4PIN-TTL-232		Check log
3	1 PSAM slot		

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6-pin serial port interface functions of each pin are as follows

Pin	Signal	Function
1	---	
2	VBUS	+5V power supply of module
3	RS232-RXD	Receive
4	RS232-TXD	Send
5	GND	Power supply ground (The shell must be connected in parallel with the power supply ground.)
6	---	

4pin-TTL serial port interface functions of each pin are as follows

Pin	Signal	Function
1	---	
2	+5V	+5V power supply of module
3	TTL-232-RXD	Receive
4	TTL 232-TXD	Send
5	GND	Power supply ground (The shell must be connected in parallel with the power supply ground.)
6	---	

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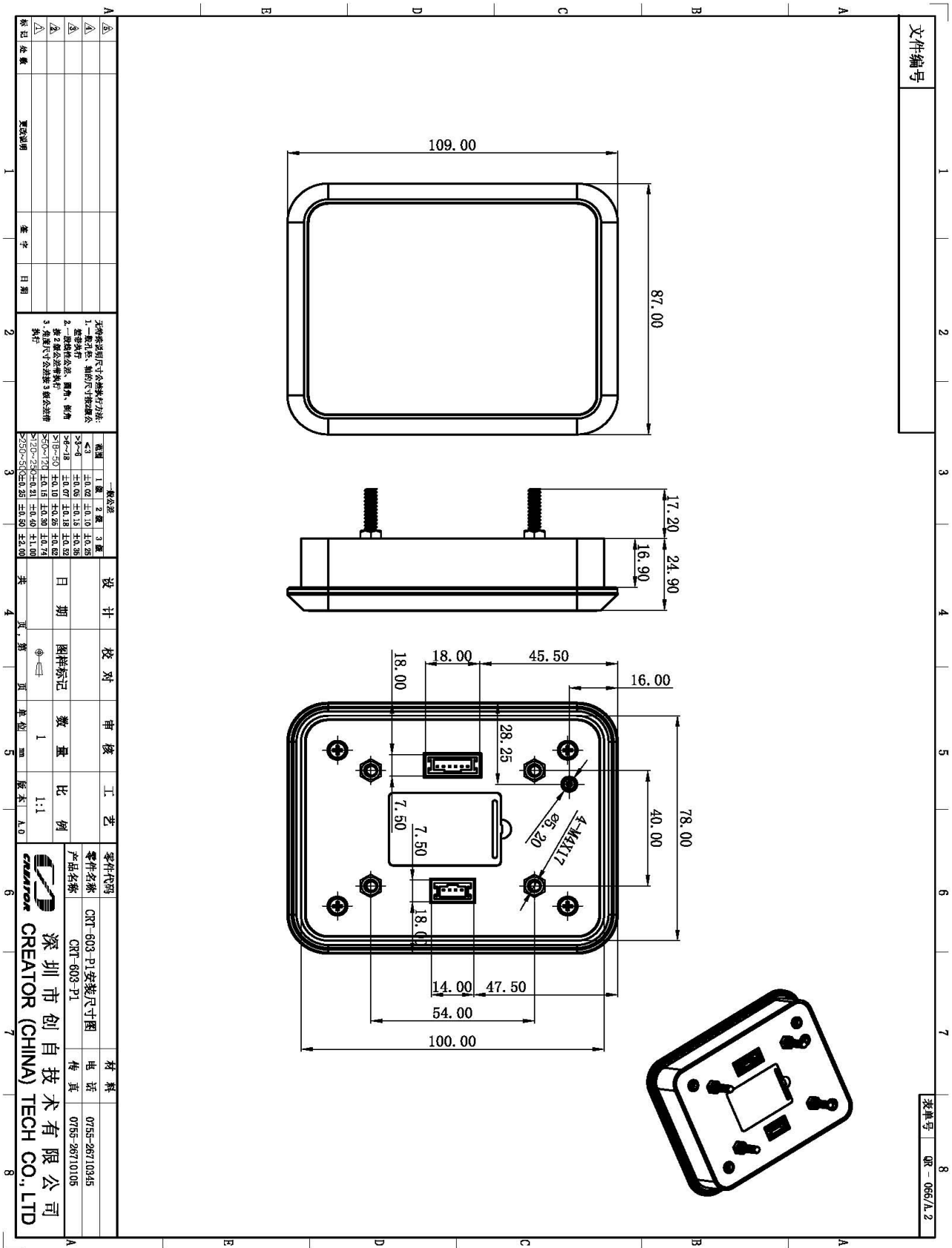
Chapter 2 Product Appearance

2.1 Overall composition



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2.2 Shape and dimension



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2.3 Installation mode drawing

