

MSRC605

(Magnetic Card Reader/Writer)

Specification V2.0.1

Section 1: Overview

MSRC605 Magnetic Stripe Card Reader/Writer is designed and produced to meet the needs of the business development of the financial system. It can read/write magnetic card of ISO7811-6, AAMVA, DMV standards. It Supports RS232 and USB interface to connect PC and other terminal devices. MSRC605 can be widely used in finance, social security, industrial and commercial tax, transportation, securities, post and telecommunications and other industries.

Section 2: Technical Feature

ITEM	SPECIFICATION
Main Technical Feature	
Power Supply	USB Bus / DC: +5V±10% 500mA.
Consumption	Current/operating Typical 350mA Max
	500mA plus for writing track
Outline	150(L)×50(W)×53 (H) mm
Weight	950g
Temperature	Operation: -10°C to 60°C; Storage: -30°C to 70°C
Humidity	Operation: 10% to 85%; Storage: 10 to 90%, Noncondensing
Magnetic Stripe Technical Feature	
Standard	ISO7811 / AAMVA / DMV
Interface	Mode 1 : RS232 - 9600 Baud, None Parity, 8 bits
	Mode 2 : USB-HID - HID specification compliant vendor-defined interface.
	Mode 3 : USB-Virtual Serial COM - 9600 Baud, None Parity, 8 bits
Register density	210bpi / 75bpi optional for all tracks 1/2/3
Bit per Char	5~7bit / char
Media Speed	10~100cm/s
Media Coercivity	Read: 300~4000 oe Mag. Card Write: 300-2750 oe Mag. Card
Error rate	Read<0.5%, Write < 0.8%
Head Life	Minimum 500,000 passes for both read & write head

Section 3: Structural Features



Section 4: Interface Signals

4.1. On RS232 interface:

Baud — 9600; Data bit --- 8; Parity---N; Stop bit ---1;

DB9F pin	Description
2	TXD
3	RXD
5	GND

Section 5: DIP-switch definition:

SW1	SW2	SW3	SW4	DIP Description
X	X	X	ON	Device into ISP slave mode
OFF	X	X	OFF	Magnetic stripe: USB-HID
ON	X	X	OFF	USB Virtual Serial COM - 9600 Baud, None Parity, 8 bits

Section 6: Control Command

See the "Instruction Program's Manual" document.

Section 7: Maintenance

Daily maintenance

The MSRC605 is a complex integrated product, in order to keep stable working, daily maintenance is need.

Cleaning the magnetic head

When reading and writing fault happened for many times, the magnetic head should be cleaned.

- Pull the cleaning card backwards and forwards 5-10 times;
- If the magnetic head is very dirty, firstly make the cleaning card wet through alcohol then to pull cleaning card several times, after then using the dried cleaning card to pull several times.

Cleaning the roller of the encoder

- Firstly make the cleaning card wet through alcohol then to pull cleaning card 5-10 times;
- Using the dried cleaning card to pull several times.