MSR106 Encoder

Features:

- Read/Write magnetic stripe cards complies with ISO 7811 format

- Read/Write magnetic stripe Passbook complies with ISO 8484 format

- Manual Swipe to read and/or write cards with PC standard RS-232 interface

- Reading low or high coercive force of magnetic stripe (300~4000 Oe)

- Writing low coercive force of magnetic stripe (300~600 Oe)

- 5~35 ips operational swipe speed of writing data

- 5~55 ips operational swipe speed of reading data

- +9VDC+/-10%, 1.0A Min., external power adapter attached

- Writing and verifying data on single, dual, or triple track in one swipe

- Programming software included for various read/write applications

- Program software for DOS and Windows 98/Me

- Programmable leading bit, raw data, and user defined format

- Compact size with dimensions of 200(L) x 60(W) x 56(H) mm

- CE, FCC, UL, cUL certified

Versatile

Manual Swipe Magnetic Card Reader/Writer MSR106 Series is designed to offer a card reading/writing solution for ISO 7811-6 and 8484 formats. The MSR106 reads and writes up to 3 tracks of data, e.g. decoding/encoding and verifying up to 3 tracks of data simultaneously. Also, the MSR106 Reader/ Writer provides a standard RS-232 interface to communicate with a host system or other terminal computers.

Multiple Applications

Manual Swipe Magnetic Card Reader/Writer MSR106 Series is ideal for credit card verification and various card related applications.

Robust Construction

The MSR106 is manufactured at our ISO 9001 certified factory and comes with a 3-year warranty.

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Data Collection Within Reach

MSR106 Specifications

Electrical

Operating voltage:	+9VDC +/- 10%
Consumption:	Typical 150mA Max. and 100mA plus for each writing track
Power Supply:	External Power Adapter 9V/1.0A
Communication:	Standard RS232 signal levels
Ripple:	50mVp-p or less
Dielectric strength:	500VDC for 1 minute

Mechanical

Body Material:	ABS 94V-0
Length:	7.89" (200.4 mm)
Width:	2.38" (60.4 mm)
Height:	2.19" (55.7 mm)
Weight:	Approx. 1kg
Swipe:	Manual, single direction

Environmental

Operation:	14° to 131° F (-10° to 55° C), 10 to 85% humidity
Storage:	-22° to 158° F (-30° to 70° C), 10 to 90% humidity
Rating:	FCC ClassB, CE classB, UL, cUL

Performance

	Track 1	Track 2	Track 3
Read card:	Track 1	Track 2	Track 3
Bit density:	210 bpi	75/210 bpi	210 bpi

Read/Write Track 2 at 210 bpi for Pass Book

Coercive force:	Read 300-4000 Oe Mag. card
	Write 300-600 Oe Mag. card
Card thickness:	0.76-1.2mm

	STD card	Jitter +/- 15%	Amp. 60%
Read speed:	5~55ips	5~50ips	5~50ips

Write speed:	5~35ips
Write jitter:	Interval < +/-8%, Sub-interval < +/-10%
Error rate:	Read < 0.5%
	Write < 0.8%
Head life:	Min. 500K swipes for both read/write head

Ordering Information

MSR106-12	Dual track (track I & II) MSR encoder
MSR106-33	Triple track (track 1, II, & III) MSR encoder

Interconnection

Cable:	5 feet, DB9 connector with power jack	
Pin Assignment:	Pin 1	---
	Pin 2	TXD (MSR106 data transmit)
	Pin 3	RXD (MSR106 data receive)
	Pin 4	---
	Pin 5	Circuit ground
	Pin 6	---
	Pin 7	---
	Pin 8	---
	Pin 9	---
Default:	9600 baud, 8 bit/character, no parity, 1 stop bit	

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