

MSR 110 SERIES

Magnetic Stripe Card Reader

RS232 Interface

Thank you for purchasing the MSR110 series products.

The MSR110 RS232 Magnetic Card Reader series is ideal for retail systems, time keeping systems, security systems and other card reader related systems. The MSR110 series are designed to offer the user a card reader solution that will complement many applications.

Triple track of MSR110 is uniquely designed to read both credit cards and Driver Licenses (AAMVA and California standard).

FEATURES

- Compact size - can be mounted on keyboard or any flat surface
- Software and hardware modification not required
- Single, dual and triple track decoding
- Bi-directional card swipe and read capability
- Audible response for good read "1 beep", missing data "2 beeps" and non-successful read "3 beeps"
- LED indications, LED Off: sending card data; Green: stand-by/good read; Yellow: missing data; Red: error
- Optional baud rate (1200, 2400, 4800, 9600, 19200)
- Firmware download
- Read/Write serial number

CONFIGURATION

- MSR110-12 Dual track 1&2
- MSR110-23 Dual track 2&3
- MSR110-33 Triple track 1&2&3

Note: Optional configuration is available.

AGENCY APPROVAL

- Specifications for subpart B of part 15 of FCC rules for a class A computing device.
- Specifications for CE mark class A.

WARRANTY

This product is served under one-year warranty to the original purchaser. Within the warranty period, merchandise found to defective will be repaired or replaced. This warranty applies to the products only under the normal use of the original purchaser, and in no circumstances covers incidental or consequential damages though consumers' misuse or modification of the products.

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SETUP

1. Power off your PC system.
2. Connect the 5-foot card reader cable to the RS232 male socket for your system.
3. Connect the 5VDC regulated power adapter cable to the card reader power jack on the DB-9 connector of card read cable and plug the power supply into a 120VAC.
4. Power on your PC system.

SPECIFICATIONS

Recording Method	Two-frequency coherent phase (F2F), compatible with ISO 7811 and AAMVA.
Swipe Speed	5 to 55 in/sec (worst case with +/- 12% jitter card)
Power Requirements	5VDC/78mA (power adapter spec. 5VDC/350mA plus regulated)
Operating Temp	-10°C to +50°C, storage temp: -30°C to +70°C
Operating Humidity	10% to 85% relative humidity
Magnetic Head Life	500K Min., 1M optional
Dimensions	3.94 in L x 1.34 in W x 1.10 in H
Weight	0.46 Lb. without power pack; 1.13 Lb. Including power pack (approx.)
Cable length	5 ft
Connector	9 pin D-sub female with molded power jack

CHARACTER FRAME

START BIT = ONE DATA BIT = 8, 7 (OPTIONAL)

PARITY = NONE, ODD, EVEN (OPTIONAL) STOP BIT = ONE

OUTPUT DATA FORMAT

Dual track	<SS>< TRACK1 or TRACK2 DATA><ES>
	<SS><TRACK2 or TRACK3 DATA><ES>
Triple track	<SS ><TRACK1 DATA><ES><SS><TRACK2 DATA><ES><SS><TRACK3 DATA><ES>

Remarks:

SS = START SENTINEL

TRACK1= “%” (ISO, DMV & AAMVA)

TRACK2= “;” (ISO, DMV & AAMVA)

TRACK3= “;” (ISO) “%” (AAMVA) “!” (CA old DMV)

ES = END SENTINEL

TRACK1, 2 & 3= “?” (ISO, CA old DMV & AAMVA)

SETTING OPTION by USING utility disk

PARAMETER	DEFAUL SETTING	OPTION			
DATA BIT & PARITY	8 BIT NONE	8 BIT NONE*	RESERVE	7 BIT ODD	7 BIT EVEN
SS, ES CODE	EXIST	EXIST*		NON-EXIST	
BAUD RATE	9600	1200	2400	9600*	19200
CHECKSUM	NON-EXIST	EXIST		NON-EXIST*	

* FACTORY SETTING AT TIME OF SHIPPING

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