MSR152 SERIES
Port Powered Manual Insert Magnetic Card Reader
RS232 Interface

Thank you for purchasing the MSR152 series products.
The MSR152 RS232 Port Powered Manual Insert Magnetic Card Reader series is ideal for retail systems, time keeping systems, security systems and other card reader related systems. The MSR152 series are designed to offer the user a card reader solution that will complement many applications.
Triple tracks of MSR152 is uniquely designed to read both credit cards and Driver Licenses (AAMVA and California standard).

FEATURES
- Light weight: Approx. 85g
- Compact size: 107L*60W*26H (mm)
- Low noise
- Low power consumption
- Allow for reading up to triple tracks of magnetic cards, including credit cards and drivers licenses.
- No extra power supply is needed.

AGENCY APPROVAL
- Specification for FCC Class B
- Specification for CE Class B
- Specification for BSMI Class B

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/ TV technician for help.

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void your authority to operate such equipment.

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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WARNING
Please to be cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate the equipment.

SETUP

1. Turn OFF power to your computer.
2. Connect MSR152 DB9 of interface cable to a free serial port of the computer.
3. Turn ON power to the computer.

SPECIFICATIONS

Recording Method	Two-frequency coherent phase (F2F), compatible with ISO 7811 and AAMVA.
Swipe Speed	4 to 40 in/sec
Power Requirements	3.3VDC
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	107L*60W*26H (mm)
Weight	Approx. 85g
Cable length	1.5M
Interface Cable	DB9 female connector

OUTPUT DATA FORMAT

- **Self-ARM mode**

Protocol code	Tk1 prefix	Tk1 Data	Tk1 suffix	EOT	BCC	
Protocol code	Separator	Tk2 prefix	Tk2 Data	Tk2 suffix	EOT	BCC
Protocol code	Separator	Tk3 prefix	Tk3 Data	Tk3 suffix	EOT	BCC

Note: The SS, ES or LRC are optional for each track.

- **Read data for command**

Read tk1 data for command

Protocol code	Tk1 prefix	Tk1 Data	Tk1 suffix	EOT	BCC

Read tk2 data for command

Protocol code	Tk2 prefix	Tk2 Data	Tk2 suffix	EOT	BCC

Read tk3 data for command

Protocol code	Tk3 prefix	Tk3 Data	Tk3 suffix	EOT	BCC

Note: The SS, ES or LRC are optional for each track.

Technical Support: Call 1-888-881-1900 (in USA)