

# MSR007H

43mm USB HID -Keyboard Mode Magnetic Stripe Swipe Card Reader



## INTRODUCTION

### MSR007H 43 mm USB HID Magnetic Stripe Swipe

**Card Read**™ consists of a high-performance multi-channel fully integrated magnetic stripe decoder chip at a low-profile magnetic read-head. This innovative, yet low-cost card reading solution offers many important advantages over the conventional less-integrated approach.

### MSR007H 43 mm USB HID Magnetic Stripe Swipe

**Card Read**™ conform to industry specifications including ANSI/ISO Standards 7810, 7811 1/5, 7812 & 7813. It can read both Lo-Co card and Hi-Co cards.

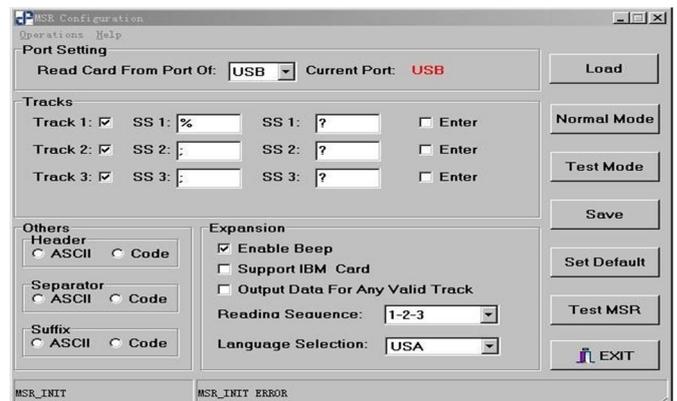
**MSR007H = 43mm ISO TK1&2&3 USB HID Keyboard Mode MSR, Black, Single Head, supporting OPOS driver.**

## FEATURES

- **Low cost solution for triple track readers** Available ISO TK1, 2 &3
- **Ultra-compact design**  
Low-profile read head contains all needed circuits. Save space!
- **High noise immunity**  
No more mill volt-level analog signals to route; no analog signals leave the shielded magnetic head! Withstands noisy PC monitors, cell phones, switching power supplies, etc.
- **High performance decoding**  
New design reads badly damaged cards; compensates for poor head mounting
- **AGC (Automatic Gain Control)**  
Reads cards from **30% - 200%** of ISO 7811 amplitude standard
- **No Windows driver needed! "MagStripe Card use!**

## OPTIONAL FEATURES

- **Supports decode ID code of all iButtons conforming to Dallas Semiconductor® 1-wire protocol**



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## SPECIFICATION

### ⌘ Reference Standards

- ANSI/ISO Standards 7810,7811-1/6, 7813

⌘ **Recording Method** Two-frequency coherent phase (F2F)

### ⌘ Decoding Method

ISO: Track1 - IATA

Track2 - ABA

Track3 - THRIFT

### ⌘ Card Swiping

**Direction** Bi-directional

### ⌘ Dimensions:

H 22.40 \* W 16.00 \* L 43.00 mm

### ⌘ Lift:

- Electronics: 125,000 hours.
- Head: 1,000,000 passes

### ⌘ Environment:

- Operating Temp: 0 ~ + 55° C
- Storage Temp: -10 ~ + 55° C
- Humidity: 10 ~ 90 relative

⌘ **Interface: USB** (HID -Keyboard Mode)

⌘ Compatible with USB specification Revision 1.1

⌘ Compatible with HID specification Version 1.1

⌘ **“MagStripe Card Reader Configuration Utility”** Support

Microsoft

Windows98/ME/2000/XP/Vista 32bit.

⌘ **OPOS Driver** for Win32-based POS device access. OPOS is currently deployed on Microsoft Windows 2000/XP/Vista/ Win7 32bit.

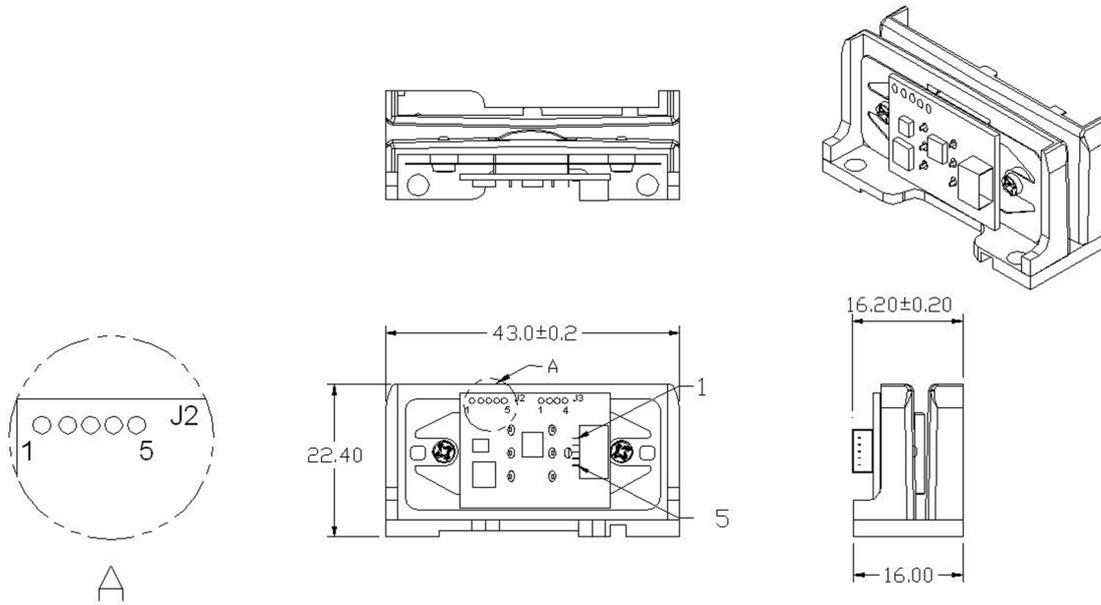
⌘ **Power Supply:** DC 5V, though USB Interface Cable.

⌘ **Power Consumption:** less than **8.5mA** maximum total current when no card is being swiped, less than **10 mA** maximum total current at 5V while card is being swiped.

⌘ **Card Swiping Speed:** Card speed through the unit may vary from 3 ips to 100 ips (7 cm/s to 250 cm/s)

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MSR007H	
<b>Description</b>	ISO TK1, 2&3, <b>USB (HID -Keyboard Mode)</b>
<b>Pin Numbers</b>	5
<b>Connector</b>	JST SH 1.0mm
<b>PIN#</b>	
1	+5 VDD
2	D-
3	D+
4	GND
5	HEAD CASE
J2 Aux Port	
1	GND
2	VCC
3	Buzzer
4	LED-Green
5	LED-Red
6	iButton

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## ⌘ Message Format

🕒 **USB interface** (HID -Keyboard Mode): HID Keyboard device

## ⌘ Tracks and Serial Number Structure

### ISO

IATA	%	Track 1, 210 bpi, 79 alphanumeric characters, 7 bits/char	?
ABA	;	Track 2, 75 bpi, 40 numeric characters, 5 bits/char	?
THRIFT	+	Track 3, 210 bpi, 107 numeric characters, 5 bits/char	?

The device's programmable configuration options affect the format of the card data.

The card data format for the default configuration is as follows:

### ISO

Header	%	Track 1 Data	?	;	Track 2 Data	?	+	Track 3 Data	?	CR
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**Header: Scan code=27 F0 27 (Usage ID=8C).**

When you need use OPOS driver, Please comply with above-mentioned default setting value.

## ⌘ Status indicator (available for external interface connection).

ERROR INDICATOR (Red color)

When encountering erroneous input, defective card, misread, or Incorrectly encoded data, the device will turn on the ERROR indicator.

READY INDICATOR (Green color)

Indicating the reader is ready to accept new inputs.

STATUS	GREEN LED	RED LED	BUZZER
POWER ON	ON	ON	Be-
READY	ON	OFF	X
READ OK	BLINK 1 TIME	OFF	Be
READ ERROR	OFF	ON	Be- Be- Be-