

## MSR240U SERIES

### Manual Insert Magnetic Card Reader

### USB Interface

Thank you for purchasing the MSR240U series products.

The MSR240U Manual Insert Magnetic Card Reader USB interface is ideal for retail systems, time keeping systems, security systems and other card reader related systems. The MSR240U series are designed to offer the user a card reader solution that will complement many applications.

#### FEATURES

- Light weight: Approx. 50g
- Compact size: 78L\*60W\*26H (mm)
- Low power consumption.
- No extra power supply is needed.

#### CONFIGURATION

- MSR240U-02 track 2 only
- MSR240U-12 track 1&2
- MSR240U-23 track 2&3

Note: Optional configuration is available.

#### AGENCY APPROVAL

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

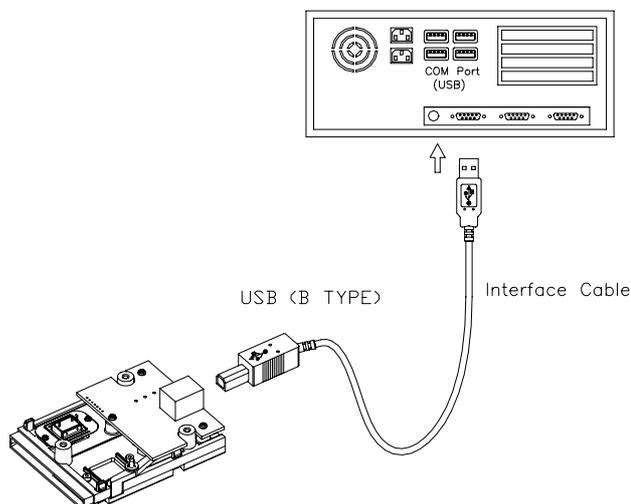
#### WARRANTY

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 USB type A connector of MSR240U cable to a free USB port.
3. Power on your PC system.
4. Normally, windows system prompts "driver request" message for the first time install.
5. After successful installed the driver, MSR240U can communicate with PC via a virtual COM port.



**SPECIFICATIONS**

**USB CONNECTOR ASSIGNMENT**

Electrical	
Power Requirements	+5.0VDC
Interface	USB Type A connector
Agency Approval	FCC/CE Class B; BSMI Class B
Mechanical	
Body Material	ABS+10%GF
Dimensions	78 <sub>L</sub> × 60 <sub>W</sub> × 26 <sub>H</sub> mm
Weight	Approx. 50g
Card Handling Method	Manual insert
Environment	
Operation	Temperature: -10°C ~ 50°C Humidity: 15% to 90% (non condensing)
Storage	Temperature: -30°C ~ 70°C Humidity: 10% to 90% (non condensing)
Performance	
Card Type	Magnetic card as per ISO7811
Swipe Speed	Standard card    Jitter±15%    Amp.60%
	4 ~ 40 ips        5 ~ 35 ips        5 ~ 35 ips
Card Media	Read 300 ~ 4000 oe magnetic stripe
Magnetic Head Life	500K Min.

Contact Number	Signal Name	Typical Wiring Assignment
1	Vbus	Red
2	D-	White
3	D+	Green
4	GND	Black
Shell	Shield	Drain Wire

**OUTPUT DATA FORMAT**

Single track	<SS>< TRACK 1or 2or 3 DATA ><ES>
Dual track	<SS>< TRACK 1 or TRACK 2 DATA ><ES>
	<SS>< TRACK 2 or TRACK 3 DATA ><ES>
Triple track	<SS>< TRACK 1 DATA ><ES><SS>< TRACK 2 DATA ><ES><SS>< TRACK 3 DATA ><ES>

Remarks:

SS = START SENTINEL

TRACK1= “%” TRACK2= “;” TRACK3= “;”

ES = END SENTINEL

TRACK1, 2 & 3= “?”

Note:

1. If read error, the default output data format is <STX><SS>E<ES><ETX> and it can be replaced as either <STX><SS>F<ES><ETX> or output nothing.
2. If no data is read, then display <STX><SS>N<ES><ETX> as default and it can be replaced as output nothing.
3. <STX>, <ETX>, <DLE>, SS (start sentinel), ES (end sentinel) and LRC are optional. The <DLE> is programmable by command setting.
4. The SS, ES or LRC are optional for each track.