

# ***Specification***

## **Manual Swipe Type Magnetic Stripe Card Reader USB Interface Wedge Terminal**

|             |           |        |
|-------------|-----------|--------|
| JSTU - 1210 | ISO-1     | Reader |
| JSTU - 1220 | ISO-2     | Reader |
| JSTU - 1230 | ISO-3     | Reader |
| JSTU - 1240 | JIS - II  | Reader |
| JSTU - 1250 | ISO-1/2   | Reader |
| JSTU - 1260 | ISO-2/3   | Reader |
| JSTU - 1270 | ISO-1/2/3 | Reader |

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**Product** Manual Swipe Type Card Reader with USB Interface

**Model Name** JSTU-12X0 series

**General** JSTU-12X0 Model is Developed so that it can ISO and JIS-II Format

**Basic Specification**

|                                   |  |
|-----------------------------------|--|
| <b>Dimension</b>                  | 42mm(W) x 140mm(D) x 46.2mm(H)   |
| <b>Weight</b>                     | 250g(approx.)  |
| <b>Ripple</b>                     | 100mVp-p max.  |
| <b>Power consumption</b>          | 100mA(max.) : JSTU-1272  |
| <b>Environmental Requirements</b> |  |
| <b>Operating</b>                  | -5℃ ~ 50℃, 20% ~ 90% RH<br>-20℃ ~ 70℃, 10% ~ 95% RH<br>(No functional error to be found in 12 hours after returning to normal environment) |
| <b>Operation Locus</b>            | Indoor use   |
| <b>Vibration</b>                  | Amplitude 2mm within 2G or less, 10 ~ 50Hz X,Y,Z directions for 30min.   |
| <b>Shock</b>                      | 30G, 11msec  |

**Specification**

|                    |                   |                 |                  |                |
|--------------------|-------------------|-----------------|------------------|----------------|
| Track Position     | ISO 1 (IATA)      | ISO 2 (ABA)     | ISO 3 (MINTS)    | JIS-II         |
| Recording Density  | 210 BPI           | 75 BPI          | 210 BPI          | 210BPI         |
| Recording Capacity | 79 Char (7bits)   | 40 Char (5bits) | 107 Char (5bits) | 72 Char(8bits) |
| Card Thickness     | 0.76 mm ± 0.08 mm |                 |                  |                |

|                            |  |
|----------------------------|--|
| <b>Available Platform</b>  | Windows98, Windows98SE, Windows2000, Windows Me, Windows XP                |
| <b>Device Driver</b>       | HID default Keyboard Driver of Win98, Win98SE, Win2000, Win Me, Windows XP |
| <b>Reading Method</b>      | F2F  |
| <b>Card Thickness</b>      | Plastic 0.76 ± 0.08mm  |
| <b>Head Function</b>       | Read only 1.5m   |
| <b>Stripe Coercivity</b>   | 300 Oe   |
| <b>Operation Speed</b>     | 10 ~ 100cm/sec   |
| <b>Operation Direction</b> | Bi-direction swipe   |
| <b>Life of Head</b>        | 500,000 card passes (1 pass : one swipe)                                   |
| <b>Error Rate</b>          | 0.5% less than (Test card)   |

**Indicator**

**LED Description**

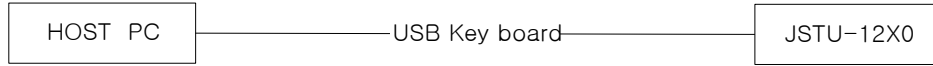
| No. | Color  | Signal Name | Description              |
|-----|--------|-------------|--------------------------|
| 1   | Green  | Good        | Card reading is normal   |
| 2   | Red    | Error       | Card reading is abnormal |
| 3   | Yellow | Read        | Card reading process     |

**Buzzer Operation**

|          |          |
|----------|----------|
| Normal   | = 1 time |
| Abnormal | = 3 time |

**Interface Requirements**

**System Block Diagram**



**USB Connection**

| USB Signal Name  | USB   | JSTU-12X0 In/Out | Signal Function |
|------------------|-------|------------------|-----------------|
|                  | 4 Pin |                  |                 |
| V <sub>BUS</sub> | 1     | In               | Bus Power       |
| D-               | 2     | In / Out         | DATA-           |
| D+               | 3     | In / Out         | DATA+           |
| GND              | 4     | -                | Signal ground   |

**Setting DIP switch**

| DIP SW         | Function                 | Description |   |
|----------------|--------------------------|-------------|---|
| S/W-1<br>S/W-2 | Not Used                 |             |   |
| S/W-3          | Direction Code Selection | ON          | ISO-1 = “.” ( 3Ah )<br>ISO-2 = “;” ( 3Bh )<br>ISO-3 = “>” ( 3Eh )<br>JIS-II = “<” ( 3Ch ) |
| S/W-4          | CR Selection             | ON          | CR use (default)  |
| S/W-5          | Track Selection          | ON          | JIS-II Track use  |
| S/W-6          |                          | ON          | ISO-1 Track use   |
| S/W-7          |                          | ON          | ISO-2 Track use   |
| S/W-8          |                          | ON          | ISO-3 Track use   |

**Model Selection**

| NO | DIP-5 | DIP-6 | DIP-7 | DIP-8 | Used Model |
|----|-------|-------|-------|-------|------------|
| 1  | OFF   | ON    | OFF   | OFF   | JSTU-1210  |
| 2  | OFF   | OFF   | ON    | OFF   | JSTU-1220  |
| 3  | OFF   | OFF   | OFF   | ON    | JSTU-1230  |
| 4  | ON    | OFF   | OFF   | OFF   | JSTU-1240  |
| 5  | OFF   | ON    | ON    | OFF   | JSTU-1250  |
| 6  | OFF   | OFF   | ON    | ON    | JSTU-1260  |
| 7  | OFF   | ON    | ON    | ON    | JSTU-1270  |

Dimension Drawings

