Card Issuing Machine CRT-591-B223

CREATOR (CHINA) TECH CO., LTD.

6/F, Block C3, ZHIYUAN iPark, No.1001 XueYuan Road, NanShan District, ShenZhen, GuangDong, China.

TEL:+86 755 26710691  FAX:+86 755 26710105

Http://www.china-creator.com
● Welcome to use Creator’s products

● Please carefully read specification before using this card issuing machine.

Main structure of CRT-591-B223:

1----- Bezel component
2----- Read/Write Component
3----- Card Thickness Adjustment
4----- Card dispensing component
5----- Blade for stacker
6----- Card push slider
7----- Press button

Warning: Card issuing machine is forbidden to use above 30V voltage, if using, it will cause card issuing machine destroyed.
1. **OVERVIEW**

CRT-571-XM1(WR)-BSJ is card issuing machine with half length SIM card reading/writing operation (Customized product), it can be used separately or combination. Except IC card length, the others is fully compliant with standard contact card, please see its technical criteria.

Main features:

① Adopting card pushing way by metal gear, rack slide, make card dispensing more stable, reliable, long life time of card pushing slider.

② Card thickness adjustment mechanism: Ex-work setting, only dispensing $0.76 \pm 10\%$mm standard card.

③ Multi-units communication: Support Max. 16 sets of CRT-591.

④ Small-size card issuing machine for half length IC card reading/writing operation.

2. **Customization instructions**

This Model adopts card pushing way of metal gear, rack slide.

This model only allows dispensing card which is compliant with standard card thickness.

Card dimension permitted (L*W): $42 \pm 1\text{mm} \times 55 \pm 1\text{mm}$

3. **Technical specification**

<table>
<thead>
<tr>
<th>Items</th>
<th>Parameter instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>DC $24\text{V} \pm 5%$</td>
</tr>
<tr>
<td>Current consumption</td>
<td>Static current: $0.2$ A</td>
</tr>
<tr>
<td></td>
<td>Peak Current: $2$ A (Card moving: $1.5$A)</td>
</tr>
<tr>
<td>Interface</td>
<td>RS-232 / USB(HID) interface</td>
</tr>
<tr>
<td>Card dimension</td>
<td>Width: $55 \pm 1\text{mm}$, Length: $42 \pm 1\text{mm}$</td>
</tr>
<tr>
<td></td>
<td>Thickness: $0.76 \pm 10%$mm (Ex-work setting: $0.76$mm)</td>
</tr>
<tr>
<td>Card dispensing speed</td>
<td>Approx. $14 \text{cm/s}$</td>
</tr>
<tr>
<td>Card Stacking Capability</td>
<td>120pcs on the base of $0.76$mm standard card.</td>
</tr>
<tr>
<td>Card Pre-Empty Detection</td>
<td>7～50pcs (on the base of $0.76$mm standard card, Default setting: 15pcs)</td>
</tr>
<tr>
<td>Life time</td>
<td>Transportation: $500,000$ times/Min (Card in dispenser from the front to back, then from back to the front which count one times.) ICcard pressing device and IC card contact pin: $300,000$ times/Min</td>
</tr>
<tr>
<td>Error rate</td>
<td>IC card: reading/writing card $1,000$ times, error rate $&lt; 1$ times (except dirty card causes error). Note: The above mentioned card is special made IC card.</td>
</tr>
</tbody>
</table>
### SPECIFICATION

**Model No.** CRT-591  
**Date** 2015/10/22  
**Ver.** A1.0  
**Page** 4/6

| **MTBF** | >100,000 hours (only electronic components)  
| **Note:** 250 times/day, 25 days/month, 300 hours/month |
| **Environment conditions** | Operation: 0℃~50℃, 0~90 % RH (Non-condensing)  
| **Storage:** -25℃~80℃, 0~95 % RH (Non-condensing)  
| **Online download** | Support IAP online download  
| **Net weight** | Approx. 2.0 Kg (not including accessories and package)  
| **RoHS standard** | Compliant with RoHS standard.  
| **IC card standard** | Compliant with ISO7816 standard. E.g.: (AT24C01, 24C02, ……, 24C256; SLE4447, SLE4428; CPU T=0/T=1)  

#### 4. Interface instructions

**Picture 1. CRT-591 interface sketch map**

**Picture 2. 4PIN Power supply cable**

| 1 | 红色 (red) | +24V  
| 2 | 黄色 (yellow) | +24V  
| 3 | 黑色 (black) | GND  
| 4 | 黑色 (black) | GND  

---

*Note: The Chinese text has been translated into English.*

*Image 1: CRT-591 interface sketch map*  
*Image 2: 4PIN Power supply cable*
Picture 3. 3PIN serial cable and computer DP 9PIN connector cable

5. Structural dimensions
6. Notice

1) IC card position in stacker

2) Iron block position in stacker

2) When using, please kindly note that card thickness have been fixed, don’t adjust it.

3) After placing card into stacker, make sure iron block on cards,

7. Other relevant documents

① Communicational protocol: CRT_571_V10_communicational protocol.PDF

② DLL: CRT_571_V10_DLL SPECIFICATION.PDF