

**TIM-006A**

**Smart Card  
Dispensing**

**Module**

# 1 General description

Smart card dispensing module is a device used for card issuing inside intelligent transportation equipment. The module can issue smart card and also can transmit the invalid card to the rejection bin.

Lock is provided to protect the card transportation security.

## 2 Module number

TIM-006A

## 3 Term

**Detaching Mechanism:** transfer the card to transport unit from collection box or dispensing mechanism;

**Dispensing mechanism:** the mechanism to dispense the cards;

**Transport tunnel:** the aisle between detaching mechanism and dispensing mechanism, which is responsible for to transport the card to dispensing mechanism or rejection bin;

**Reading/writing area:** the area in the transmission aisle for the reading and writing;

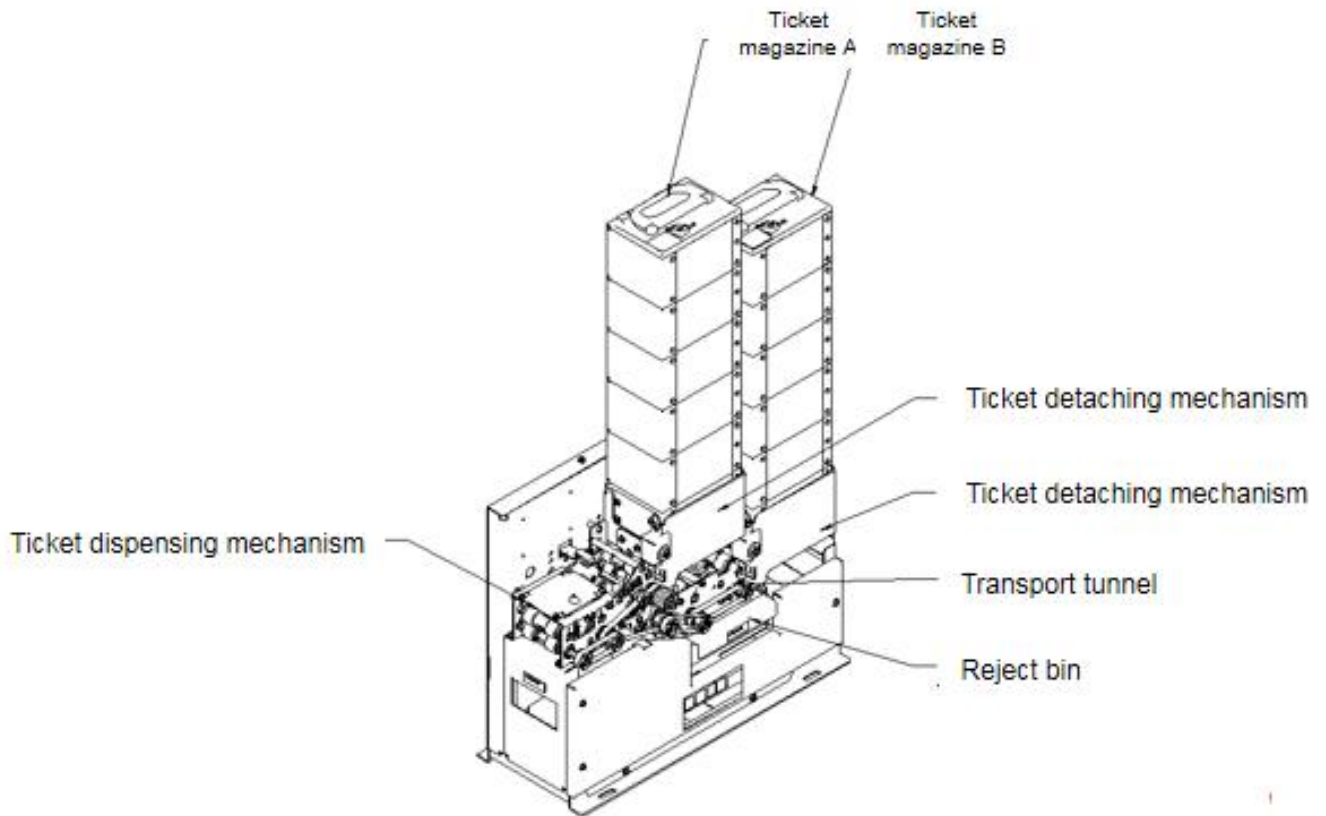
**Card magazine A:** the box near the reading area, which is used for contain the cards specified for the reading area;

**Card magazine B:** the box next to magazine A, which is used for contain the cards specified for the reading area;

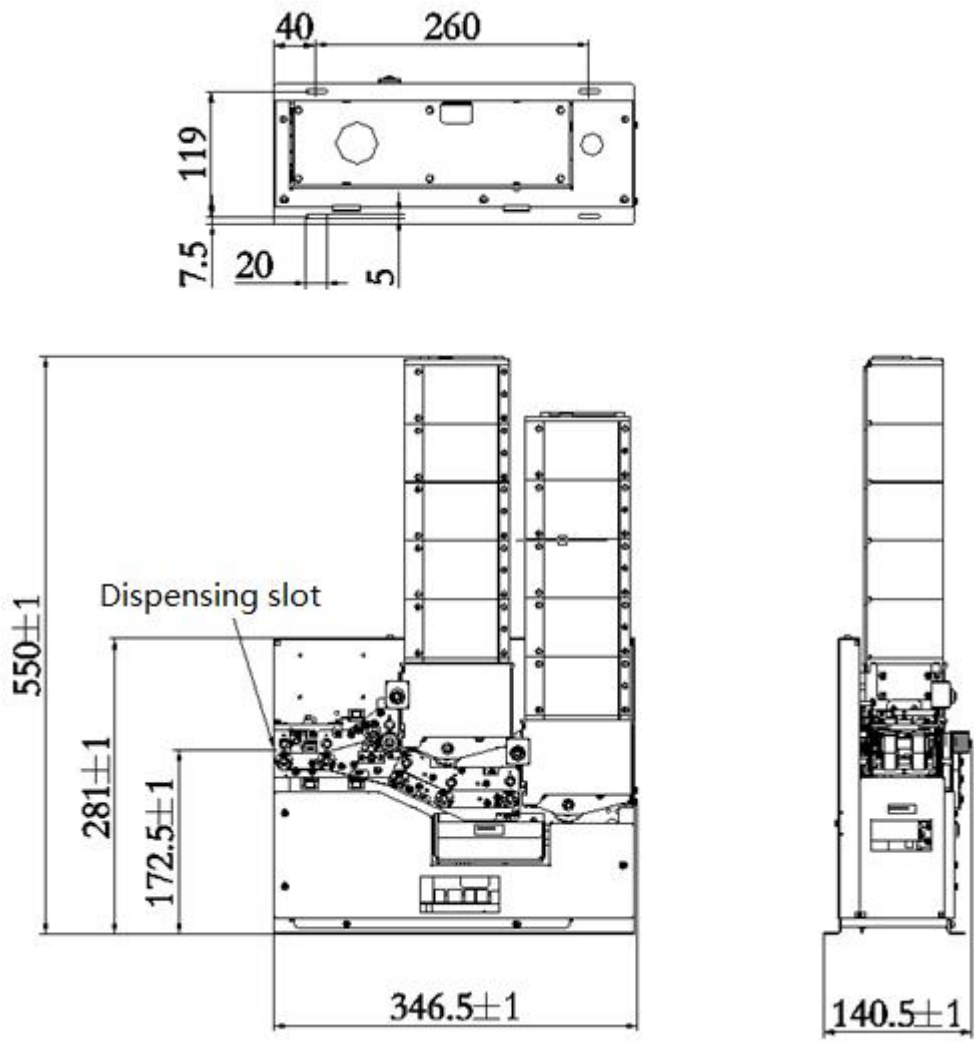
**Rejection Bin:** the container used for storage of the invalid card;

## 4 Overview

### 4.1 Construction



4.2 Overall dimensions



Module dimension: 346.5mm(L)×140.5mm(W)×550mm(H)

## **5 Functional Performance**

- Card dispensing function: send the card from specified magazine to the reading area;
- Transport function: send the card from the reading area to the output tray;
- Card capturing function: send the invalid card from the reading area to the rejection bin;
- Clearing aisle function: send the blocked cards or the one left in the aisle for other reasons back to the rejection bin. The function is used to eliminate faults and resume the module to normal service state;

## **6 Feature**

- Easy operation and user-friendly maintenance: Use lifting handle and wheel for maintenance. The average MTTR is less than 15 minutes;
- Fast card handling speed: average dispensing speed $\leq$ 1s (including the reading/writing time: 0.3s per card);
- Safety design: The boxes have lock mechanism to prevent the card being removed without using keys during transportation;
- Fault tolerant ability: Module itself can handle general anomalies.
- Long life span: The module has minimum life span of 5 years.

## 7 Technical Parameters

### 7.1 Specification

Item		Description
Power supply	Working voltage	24VDC±10%
	Standby power	8W
	Max power	90W
Environmental requirements	Working temperature	0°C ~ 60°C
	Working humidity	20% ~ 95%
	Storage humidity	10% ~ 95%
Communication interface		RS-232
Weight	Module	Module: 6.5kg (empty status)
	Ticket box	Total weight 14kg (full)
Overall dimensions		346.5mm(L)×140.5mm(W)×550mm(H)

### 7.2 Performance

Item	Description
Magazine capacity	640 cards / per magazine (card thickness 0.5 mm)
Magazine material	PVC
Rejection bin capacity	50 cards
Card vending speed	≤1s per card (including 300ms read/write time)