

# **TAM-001**

## **Smart Card Acceptance**

### **Module**

## 1 General description

TAM-001 card acceptance module is one of the key modules of the gate in the intelligent transportation automatic ticket sale and inspection system. It mainly includes a card slot, ticket card reading and writing area, transmission channel, recycling module frame, RFID electronic label reading and writing unit, card box, main control board and other components. The module can not only neatly collect the ticket cards into the designated box, but also return the ticket cards to the passenger as needed.

## 2 Module number

TAM-001

## 3 Term

**Ticket card reading and writing area:** the position where the ticket card is waiting for the card reader to read and write the ticket information after the ticket card enters the channel;

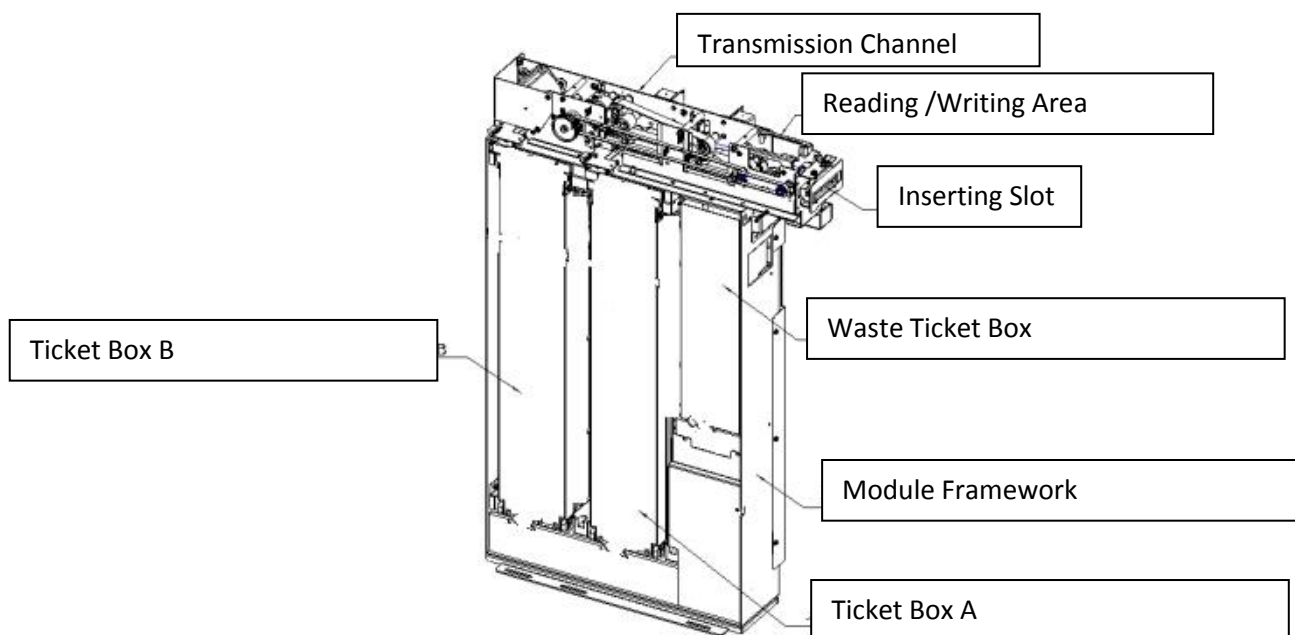
**Recovery processing time:** the time required to recover a single ticket card;

**Card box/ticket box:** a container used to store a designated legal ticket card;

**Waste card box/recycling box:** used to store containers that cannot be recycled or recycled that do not meet the specifications for the use of cards.

## 4 Overview

### 4.1 Construction(For reference)



## 4.2 Overall dimensions

Module dimension(With Waste Ticket Box): 494.5mm(L)×159mm(W)×733mm(H)

## 5 Functional Performance

**Storage function:** This function can send the ticket in the card reading area to the designated card box or waste card box;

**Card return function:** the ticket card in the card reading area can be returned to the card slot;

**Automatic adjustment function:** after taking out the card box, the tray will automatically drop to the bottom of the module;

**Manual maintenance function:** Use manual keys to control the up and down movement of each tray. If the box does not exist, the manual button that controls the tray movement of the box will be disabled;

**Channel clearing function:** Return ticket cards left in the channel due to blockage or other faults to the slot or the specified box. This function is mainly used to eliminate the card ticket fault and restore the module to the normal working state.

## 6 Feature

**Simple operation and easy maintenance:** card box replacement and module routine maintenance can be completed in a short time;

**Ticket processing speed:** single transaction processing time is less than 1 second;

**High security of the ticket card:** the card box has its own door lock, and the ticket card can not be taken out without the key to open the lock in the process of transportation;

**Strong fault tolerance:** the module can automatically handle most abnormal cases;

## 7 Technical Parameters

### 7.1 Specification

Item		Description
Power supply	Working voltage	24VDC±10%
	Standby power	<12W
	Max power	50W
Environmental requirements	Working temperature	0°C~50°C
	Working humidity	20% ~ 95%
	Storage temperature	-20°C~60°C
	Storage humidity	10% ~ 95%
Communication interface		RS-232
Weight	Module	Module with waste card box:28kg Total weight 35~40kg (full)
Overall dimensions		495.5mm(L)×159mm(W)×733mm(H)

## 7.2 Performance

Item	Description
Magazine capacity	600-1000 cards / per magazine (card thickness 0.5 mm)
Rejection bin capacity	50 or 300 cards(card thickness 0.5 mm)
Lifetime	More than 5 years
Card processing speed	≤1s per card

## 7.3 Adapt to the technical specifications of the ticket

Item	Specifications
Length	85.5±0.2 mm
Width	54±0.2 mm
Thickness	0.3-0.8±0.05 mm (The module should be adjusted according to the actual card thickness before leaving the factory)