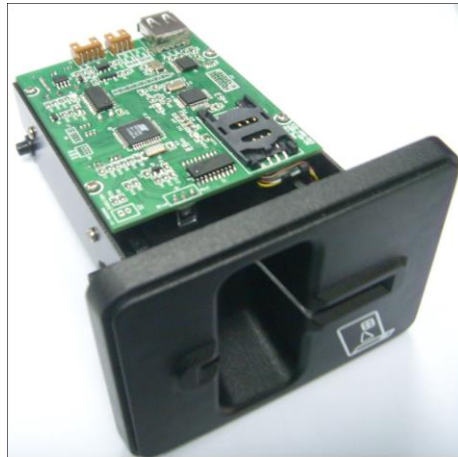
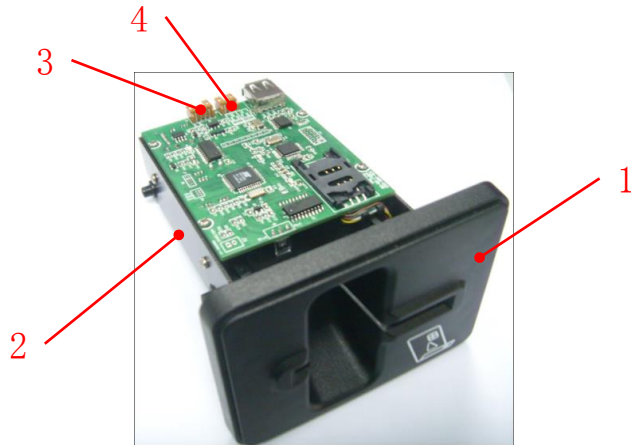


Series 7600
Full Stripe Insertion Magnetic Stripe/Ship Card Combo,
Manual Card Reader
V4.0
Product Specification



Model 7600 Basic Structure:



- 1-----B Bezel (Option)
- 2-----288 Main Body
- 3-----4PIN Power Interface
- 4-----RS232

Warning:

- 1. Prohibit accessing input voltage above 7V while using 5V type Model 7600.***
- 2. Prohibit accessing input voltage above 15V while using 15V type Model 7600***

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1. General Information

Model 7600 is series manual card reader/writer equipment, and it locks card once fully inserted and the card will release and eject by command.

General View

Model 7604 is manual insertion card reader with controlled card latch and performs the following features:

- Read ISO standard magnetic stripe cards, RFID cards and IC card
- Electric card latch and release function. Card could be retrieved once latched if you pull by over 15 N of pulling force,
- RS232/USB interface
- Agile magnetic stripe reading type: Read when insert/withdraw and uploaded passively /actively
- Long Life time (500,000 times)
- Customization available

2. Technical Features

- **Power**
DC 5V±5%
- **Power Consumption**
Static current: 50 mA
Peak current: 450 mA
- **Interface**
RS232 or USB Interface
- **Card Specification**
Width: 53.92~54.18 mm
Length: 85.47~85.90 mm
Thickness: 0.4mm~1.2mm (Ex-works setting 0.8mm)
- **Net Weight**
Approx. 240g (Excluding accessory and package)
- **Dimension**
Refer to dimension drawing
- **Reliability**
A. Vibration: No defect in all items of the characteristics under normal condition after exposed 15min. each on X, Y and Z directions of 2mm amplitude, from 5 to 50Hz/min vibrate and acceleration is 2m/S² (0.2G).

B. Shock: No defect in all items of the characteristics under normal condition after shock one time on X, Y and Z directions of 294M/S², 11ms peak acceleration shock.

· **Life time**

Magnetic head 500,000 times Min
IC card contact carrier and contact: 300,000 times Min
Latch Mechanism: 500,000 times Min

· **Error Rate**

Magnetic card: <1/1,000 (15~25°C, 35~60%RH, perfect and standard card)
IC card: <1/1,000, (15~25°C, 35~60%RH, perfect and standard card)
RFID card: <1/10,000, (15~25°C, 35~60%RH, perfect standard card)

· **Abnormal card**

Allowance of card warp: 2mm max.

· **MTBF**

>1 X10⁵ hrs (Electronic components only)
Note: 250 times/day, 25 days/month, 300 hrs/month
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· **Environment**

Operation: 0°C-50°C, 0~90% RH (non-condensing)
Storage: -25°C~80°C, 0~95% RH (non-condensing ,dried before usage)
Normal environment: 15~25°C, 35~60%RH

· **IC card standard**

ISO7816 standard certified
e.g. (AT24C01, 24C02, 24C256, SLE4447, SLE4428, CPU T=0/T=1)

· **Magnetic card standard**

Physical characteristics: ISO7810 and 7811 standard compliant
Card dimensions: SO ISO7810ID-1- type card compliant
Embossing: ISO7811-1, ISO7811-3 compliant
Recording format: ISO7811-2, ISO7811-4, ISO7811-5, ISO7811-6 complaints

· **RFID card standard**

ISO14443-3 compliant (TYPE A: e.g. S50,S70,UL etc)
ISO14443-4 compliant (TYPE A CPU, TYPE B CPU e.g. Mifare plus, Mifare DesFire etc)

● · **RoHS, EMV Compliance**

• 2. Interface

Figure1. Model 7600 5V/12V Power and Communication Interface

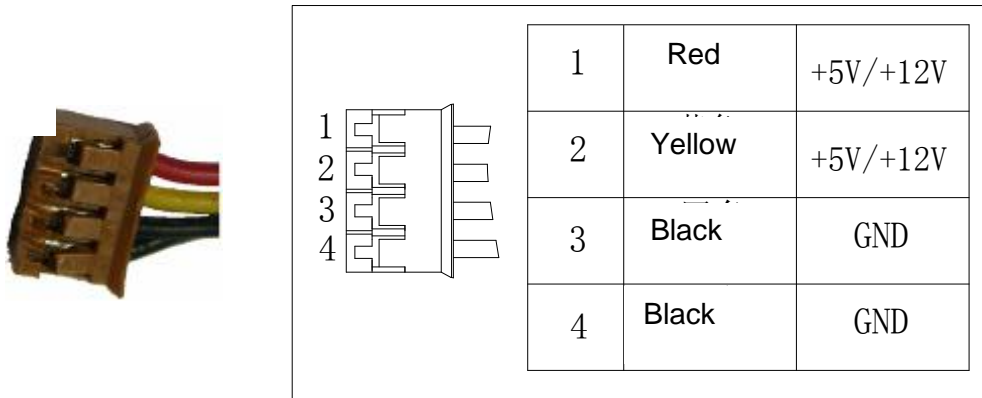


Figure2. 4PIN Power Cable

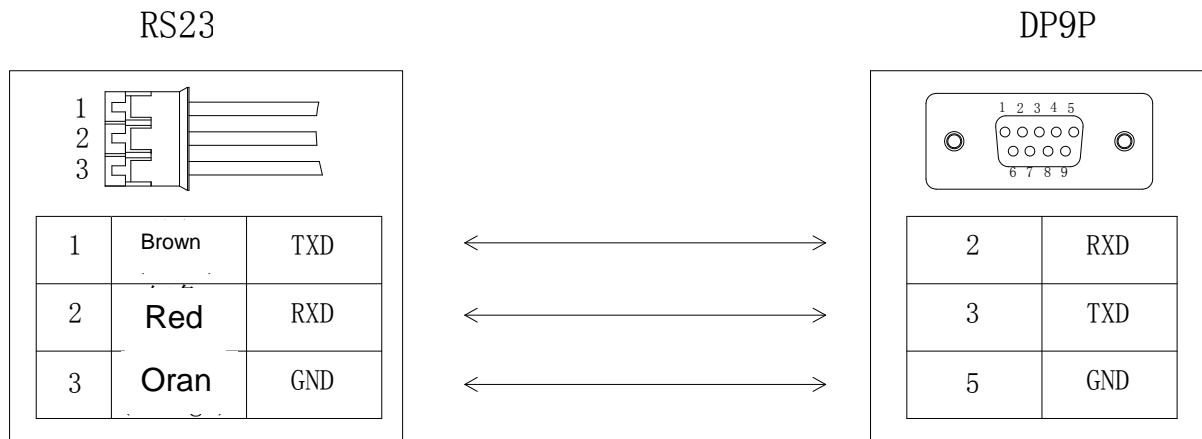


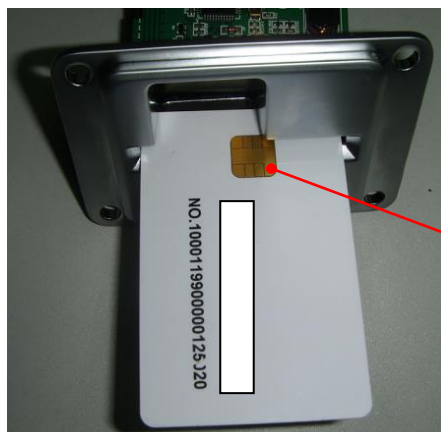
Figure 3. 3PIN COM Cable

3. Maintenance

- *The reader needs to do regular maintenance to avoid spoil on IC contact, which will defect IC reading performance.*
- *Maintenance for IC Contact: Insert cleaning card charged with alcohol wholly to reader and eject it. Repeat this cycle several times until IC contact is clean.*
- *Regular Maintenance: Clean IC contact as above procedure for every 1,000 times usage (Card in and out account as 1 time)*

4. Attention Points

- *In order to avoid damage of machine, cut off the power when doing maintenance.*
- *Keep IC contact clean and oil-free, otherwise oil adhesive characteristics will heavily influence the performance of reading IC card.*
- *Prohibit removing the card by force after locked; the card should be ejected by electronics or pin switch on the bezel (option).*
- *IC card insertion direction shows as below:*



IC Position and