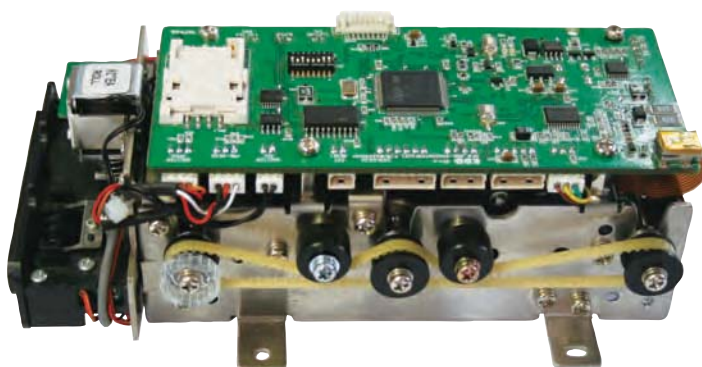


# Motorized Reader



## ESM-5000 Series

This compact size motorized insertion type of card Reader provides high reliability and space saving, and its mechanism offers accurate and efficient card reading for kiosks, payment system, parking system, etc. as it has a robust design and superior components withstands the most severe operation condition. Various options provide high flexibility to customers in accordance with applications.



### Application

- ATM / Cash dispenser
- Vending Machine
- Kiosk (information & payment)
- POS system

### Features

- Mag. stripe card Read
- IC contact card Read/Write
- T=0, T=1 protocol (default) / Customized protocol available
- EMV level 1 / PBOC
- Electric shutter available
- Anti-Skimming
- Triple DES Encryption
- Easy to upgrade firmware
- Cycle counting for head, solenoid, flash write
- Serial No. display in test program

### Specification

Card Standard	Magnetic	ISO 7810,7811
	IC	ISO/IEC7816-3:1997
Power	DC 24V $\pm$ 10%	
Communication	TTL / RS-232C / USB	
Life Time	Mag. Head	Min. 500,000 cycles
	IC contacts	Min. 700,000 contacts
Feeding Speed	350 mm/sec + 20%	
Environment	Operation	5~50°C / 20~90%RH
	Storage	-20~70°C / 0~90%RH
Dimension	90 x 66 x 163 (mm)	

### Model Name Configuration

<input type="checkbox"/>	S	<input type="checkbox"/>	-	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K: Not EMV certified E: EMV certified	S: Slim type	R: TTL M: RS-232C 1: RS-232C & USB		5: Read only	5: 12V without capture 6: 12V with capture 7: 24V without capture 8: 24V with capture 9: Customized	0: IC only 1: ISO-1 trk 2: ISO-2 trk 3: ISO-3 trk 5: ISO-1&2 trk 6: ISO-2&3 trk 8: ISO-1&2&3 trk	0: Without shutter 1: Without mechanical shutter 2: With electronic shutter 4: With IC contact (8pin) + electronic shutter 6: With IC contact (8pin) 7: With IC contact (8pin) + mechanical shutter