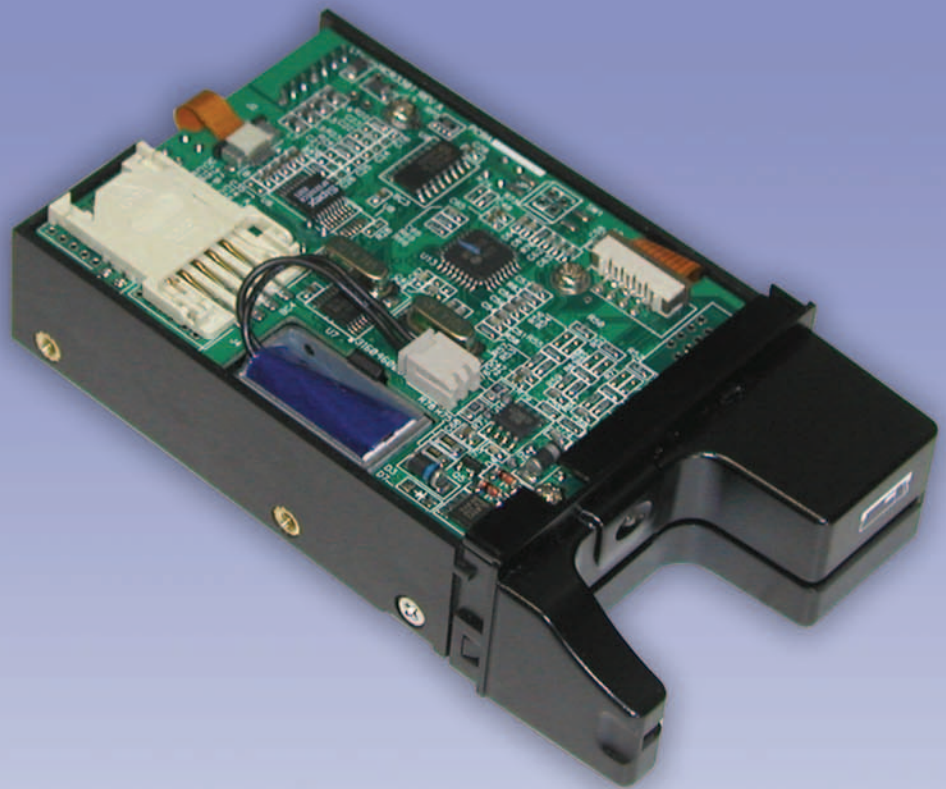


# Hybrid Card Reader

## Manual Insertion



## HCR331 Series

- EMV Level 1 certification.(Pending)
- Read/write smart cards conform to ISO 7816
- Read magnetic stripe cards conform to ISO 7811 AAMVA
- Support Memory and CPU cards T=1 / T=0
- IC Card landing contact
- Built-in one SAM Security Access Module socket
- Program firmware upgradeable
- Bi-color LED indication
- Coin Drop
- Card Latching capability
- Optional smart card only model
- Power failure auto card ejection.

## Hybrid Card Reader



T Bezel



M Bezel

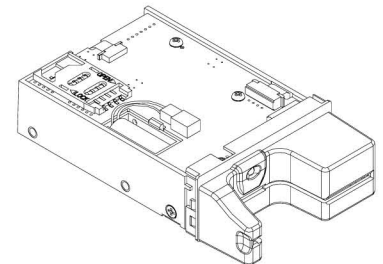
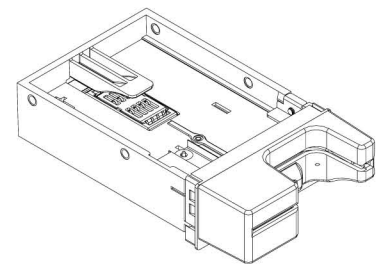
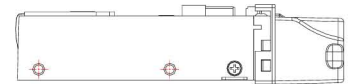
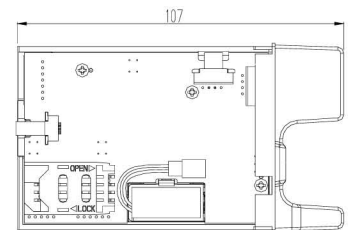
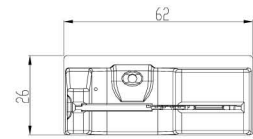


A Bezel



S Bezel

Specification			
<b>Electrical</b>			
Communication	RS232(USB optional)		
Power Requirement	+5VDC±5%		
Power Consumption	500mA maximum surge current when solenoid firing		
<b>Mechanical</b>			
Body Material	PC+20%GF+6%(W)TEFR		
Dimension	107mm(L) x 62mm(W) x 26mm(H)		
Weight	Approx. 165g (without power adapter)		
Card Handling Method	Manual insertion, bi-directional		
<b>Agency approval</b>	FCC, class B, CE class B, UL, cUL, BSMI class B, EMV level 1 (Pending).		
<b>Environment</b>			
Operation	-10 to 50°C, 15 to 90% humidity,		
Storage	-30 to 70°C, 10 to 90% humidity		
<b>Performance</b>			
Card Type	Magnetic card as per ISO7810, 7811/1-6, AAMVA		
	IC card as per ISO 7816/EMV, CPU/Memory card		
Read Capability	Magnetic stripe single, dual or triple track of low/high coercivity (300~ 4000 Oe)		
Read Speed	STD card	Jitter ± 15%	Amp. 60%
	4~ 40ips	5~ 35ips	5~ 35ips
Card Thickness	0.76 ± 0.08mm		
Error Rate	< 0.5%		
Magnet, Head Life	500K insertion cycles, 1M insertion cycles optional		
IC Card Contact Life	300K times minimum		



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