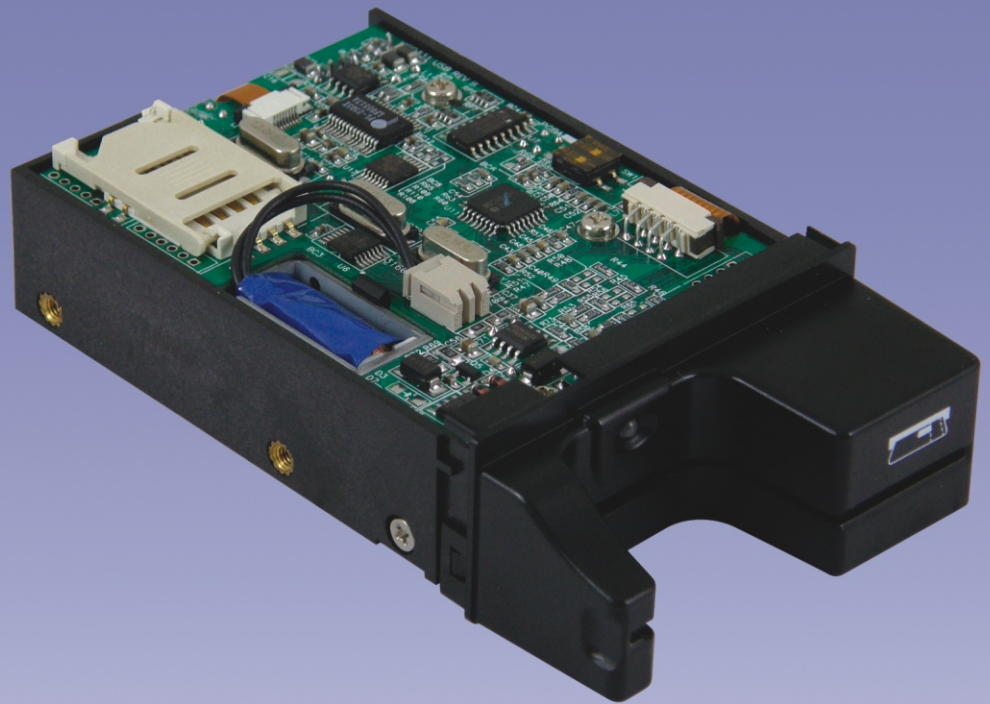


Hybrid Card Reader

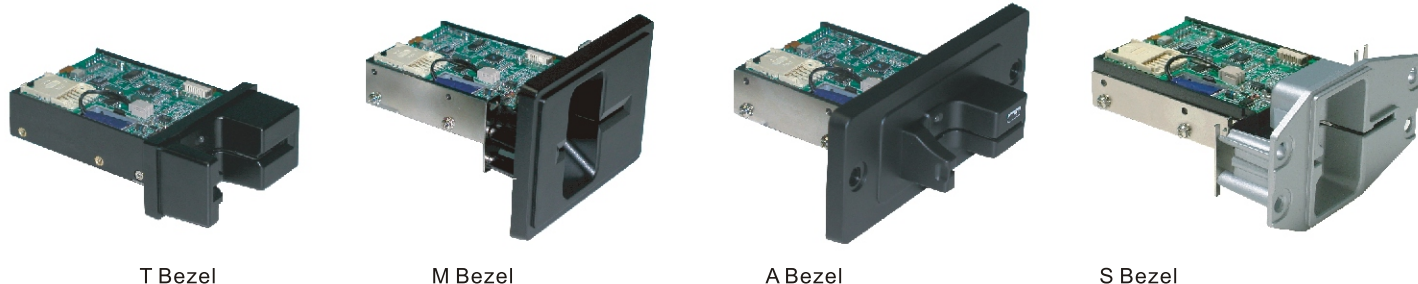
Manual Insertion



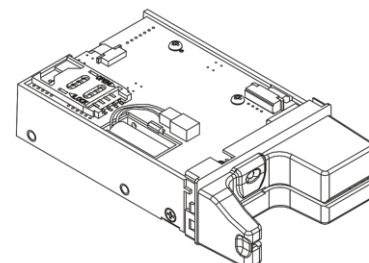
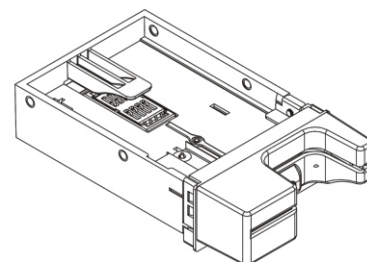
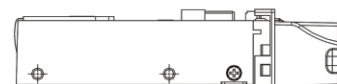
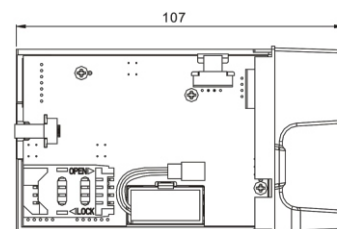
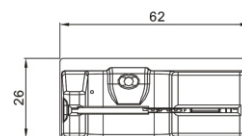
HCR331 Series

- EMV Level 1 certificated
- 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
- Built-in one SAM Security Access Module socket
- IC Card landing contact
- Coin Drop
- Card Latching capability
- Power failure auto card ejection
- Program firmware upgradeable
- Bi-color LED indication
- Optional smart card only model

Hybrid Card Reader



Specifications			
Model	HCR331		
Electrical			
Power Requirement	+5VDC ± 5%		
Power Consumption	500mA maximum surge current when solenoid firing		
Interfaces	RS232 (USB optional)		
Mechanical			
Body Material	PC + 20%GF + 6%PTFE		
Dimensions	107L x 62W x 26H mm		
Weight	Approx. 165g (without power adapter)		
Card Handling Method	Manual insertion		
Bezels	PC+GF	Metal	
	B/T/M/A Type Bezel	M/S Type Bezel	
Environment			
Operation Temperature	-10°C to +50°C		
Storage Temperature	-30°C to +70°C		
Operation Humidity	15% to 90%		
Storage Humidity	10% to 90%		
Agency Approval			
	FCC class B, CE class B, BSMI class B		
Performance			
Read Card Format	Track 1	Track 2	Track 3
Bit Density	210 bpi	75 bpi	210 bpi
Card Types	Magnetic cards as per ISO7810, 7811, AAMVA		
	IC cards as per ISO 7816/EMV, CPU/Memory card		
Read Capability	Magnetic stripe - single, dual or triple track of low/high coercivity (300~4000 Oe)		
Test Card Types	Standard Card	Jitter ± 15%	Amp.60%
Read Speed	4~40ips	5~35ips	5~35ips
Card Thickness	0.76 ± 0.08mm		
Error Rate	< 0.5%		
Magnetic Head Life	500K insertion cycles, 1M insertion cycles optional.		
IC Card Contract Life	500K times minimum		



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