

Hybrid Card Reader

HCR300 Series

- Read/Write smart cards conform to ISO 7816
- Read magnetic stripe cards conform to ISO 7811
- Magnetic reader available in single, dual or triple track configuration
- Standard RS-232 interface (TTL version optional)
- Manual insertion
- CE, FCC certified

Specification			
Electrical			
Power require	+5VDC +/-10%		
Consumption	60mA Max.		
Power adapter	120VAC/5VDC, 350mA regulated		
	230VAC/5VDC optional		
Communication	Standard RS232 signal level		
Ripple	50mVp-p or less		
Dielectric strength	500VDC for 1 minute		
Protocol	T=0, T=1		
Card program voltage	+5VDC +/-5%		
Mechanical			
Body Material	ABS 94V-0		
Weight	approx. 185g		
Dimension	125Lx60Wx21H mm		
Indicator	LED light indicate card in position		
Operation	Manual full or half insertion		
Environment			
Operating	-10 to 50, 10 to 80% humidity		
Storage	-20 to 70, 10 to 90% humidity		
Agency approval			
Rating	FCC class A, CE class A		
Performance			
Read Magnetic card	Bi-directional,insert and/or eject		
Card format	Track 1	Track 2	Track 3
Bit per density	210 bpi	75 bpi	210 bpi
Coercive force	Read 300-4000 oe Magnetic Stripe		
Read speed	STD card	Jitter +/-15%	Amp. 60%
	4~40ip	5~35ips	5~35ips
Read/write IC Card	Asynchronous card		
Card Thickness	0.76-1.2mm,		
Error Rate	Read < 0.5%		
Head Life	Min. 300k Swipes,500K,1M optional		
IC contract Life	Min. 100K times		

Model Configuration							
Model	Mag. Track			IC card	Insert	IC contact	
	1	2	3			ISO	CP8
HCR300-02ACBF1	--	R	--	Asyncro.	Full	R/W	--
HCR300-12ACBF1	R	R	--	Asyncro.	Full	R/W	--
HCR300-33ACBF1	R	R	R	Asyncro.	Full	R/W	--
HCR300-02ACBH2	--	R	--	Asyncro.	Half	R/W	R/W

Interconnection	
Cable	5 feet, DB9 connector
DB9 Connector pin assignment	
1,4,6	Short
2	TXD / HCR300 transmit data
3	RXD / HCR300 receiving data
5	Circuit ground
7,8	Short
9	--
Default 9600, 8 bit per character, none parity, 1 stop bit adjustable by setup/application software	

