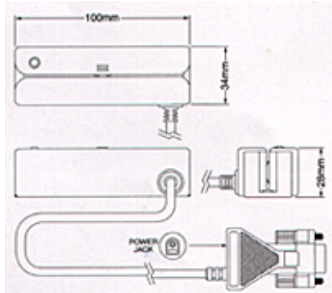


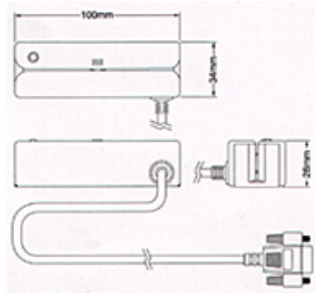
MSR110/112/210 Series

Magnetic Stripe Card Readers

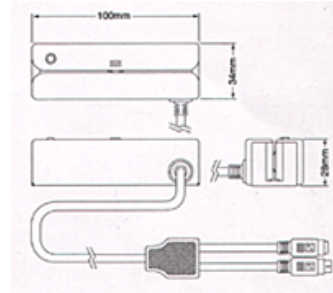
MSR110 RS232 Interface



MSR112 RS232 Interface
(port powered)



MSR210 Keyboard Interface



MSR110 Specification			
Electrical			
Power Requirement	+5VDC ± 10%		
Consumption	90mA Max		
Communication	RS232		
Mechanical			
Body Material	ABS 94V-0		
Dimensions	100Lx34Wx28H mm		
Weight	Approx. 120g		
Card handling method	Manual swipe, Bi-directional		
Operating Condition			
-10°C ~ +55°C, 10 ~ 90% humidity			
Agency Approval			
FCC/CE class A, UL, cUL			
Performance			
Read Card	Magnetic card as per ISO 7810, 7811/1-6 AAMVA, JS II & custom data		
Read Capability	Magnetic stripe single, dual or triple track of low or high coercivity (300-4000 Oe)		
Read Speed	STD card	Jitter ± 15%	Amp: 60%
	5-55ips	5-50ips	5-50ips
Card thickness	0.76 - 1.2mm		
Card Error rate	<0.5%		
Magnetic Head Life	500K swipes, 1M life optional		

MSR112 Specification			
Electrical			
Power Requirement	Port Powered		
Consumption	59mA		
Communication	RS232		
Mechanical			
Body Material	ABS 94V-0		
Dimensions	100Lx34Wx28H mm		
Weight	Approx. 120g		
Card handling method	Manual swipe, Bi-directional		
Operating Condition			
-10°C ~ +55°C, 10 ~ 90% humidity			
Agency Approval			
FCC/CE class A, UL, cUL			
Performance			
Read Card	Magnetic card as per ISO 7810, 7811/1-6 AAMVA		
Read Capability	Magnetic stripe single, dual or triple track of low or high coercivity (300-4000 Oe)		
Read Speed	STD card	Jitter ± 15%	Amp: 60%
	5-55ips	5-50ips	5-50ips
Card thickness	0.76 - 1.2mm		
Card Error rate	<0.5%		
Magnetic Head Life	500K swipes, 1M life optional		

MSR210 Specification			
Electrical			
Power Requirement	+5VDC ± 10% from PC KB port		
Consumption	90mA Max		
Communication	Keyboard Simulator interface		
Mechanical			
Body Material	ABS 94V-0		
Dimensions	100Lx34Wx28H mm		
Weight	Approx. 120g		
Card handling method	Manual swipe, Bi-directional		
Operating Condition			
-10°C ~ +55°C, 10 ~ 90% humidity			
Agency Approval			
FCC/CE class A, UL, cUL			
Performance			
Read Card	Magnetic card as per ISO 7810, 7811/1-6 AAMVA		
Read Capability	Magnetic stripe single, dual or triple track of low or high coercivity (300-4000 Oe)		
Read Speed	STD card	Jitter ± 15%	Amp: 60%
	5-55ips	5-50ips	5-50ips
Card thickness	0.76 - 1.2mm		
Card Error rate	<0.5%		
Magnetic Head Life	500K swipes, 1M life optional		