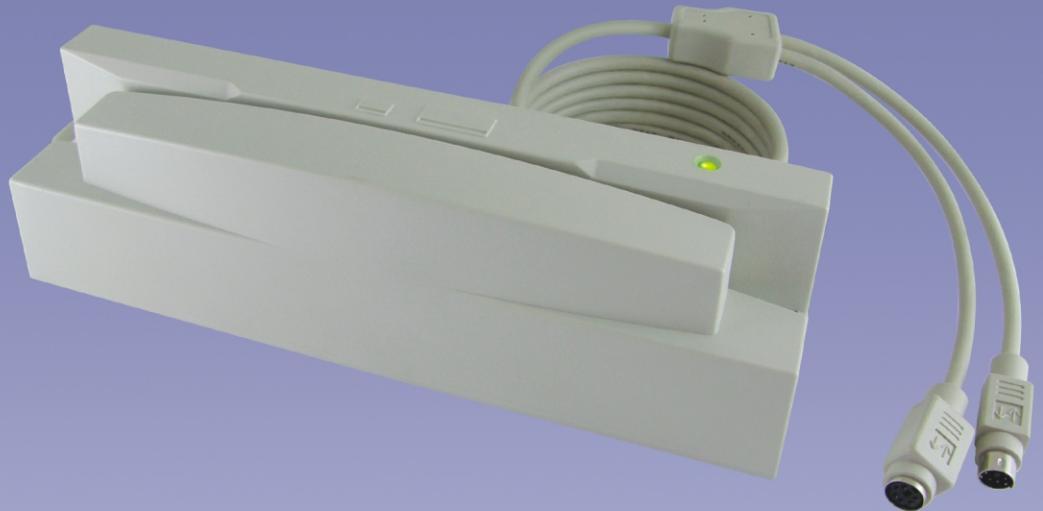


Manual ATB2 Reader



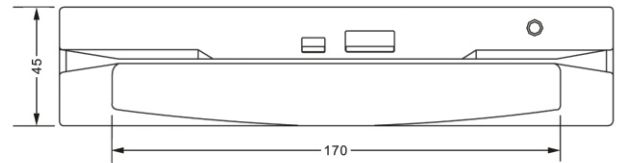
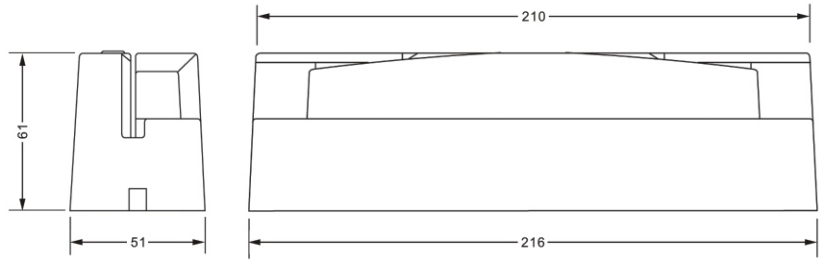
MSR220/222 Series

- Read Tickets/Boarding Passes conform to IATA ATB2 722c format
- Designed for boarding gate check in & cards acceptance
- Read magnetic stripe card conform to ISO 7811 or DMV format
- Manual swipe, bi-directional read with keyboard simulated output
- Read high & low coercivity magnetic stripe (300 ~ 4000 Oe)
- Programmable output data format by keyboard programming
- Audible beeper and LED to indicate card read status

Manual ATB2 Reader



MSR220/MSR232



Specifications				
Model	MSR222 / MSR220			
Electrical				
Power Requirement	+5VDC ± 10%			
Power Consumption	60mA Max.			
Interfaces	MSR220 : Keyboard simulated interface MSR222 : RS232 interface			
Mechanical				
Body Material	ABS 94V-0			
Dimensions	216L x 51W x 61H mm			
Weight	Approx. 540g			
Card Handling Method	Manual Swipe, bi-directional			
Environment				
Operation Temperature	-10°C to +55°C			
Storage Temperature	-30°C to +70°C			
Operation Humidity	10% to 85%			
Storage Humidity	10% to 90%			
Agency Approval				
Rating	FCC class A, CE class A			
Performance				
Read Card Format	Track 1	Track 2	Track 3	Track 4
Bit Density	210 bpi	75 bpi/210 bpi	210 bpi	210 bpi
Read Capability	Read low/high coercivity (300~4000 Oe).			
Test Card Types	Standard Card	Jitter ± 15%	Amp.60%	
Read Speed	5 ~ 45 ips	5 ~ 45 ips	5 ~ 45 ips	
Card Thickness	0.2~1.2mm			
Error Rate	< 0.5%			
Magnetic Head Life	Min. 500K Swipes, 1 M life optional			

Model Configuration					
Model	Track				Output
	1	2	3	4	Interface
MSR220-ATB2	R	R	R	R	Keyboard
MSR222-ATB2	R	R	R	R	RS232

Interconnection			
Model	MSR220	MSR222	
Cable	5 feet, DIN 5 or Mini DIN 6 for AT/XT KB	5 feet, DB9 connector with power jack	
Pin Assignment			
1	Clock	1,4,6	Short
2	Data	2	TXD (MSR222 data transmit)
3	--	3	RXD (MSR222 data receive)
4	Ground	7,8	Short
5	VCC	5	Ground

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