ACE-TEK27 Series
Manual Insert Magnetic Stripe Card Reader
-TTL Interface-

The **ACE-TEK27 Series** Manual Insert Magnetic Card Reader is ideal for retail systems, time keeping systems, security systems and other card reader related systems. The model is designed to offer user a card reader solution that will complement many applications.

Triple track of **ACE-TEK27** is uniquely designed to read both credit cards and Driver Licenses (AAMVA and California standard).

• FEATURES

—Read magnetic stripe cards conform to ISO 7811
—Manual full insert with TTL output
—Available dual and triple track configuration
—Bi-directional sends data when insert or withdraw card
—Read high and low coercivity magnetic stripes (300-4000 Oe)

• AGENCY APPROVED

—Specification for FCC Class B
—Specification for CE Class B

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio / TV technician for help.

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void your authority to operate such equipment.

• CONFIGURATION

The brief configuration of **ACE-TEK27** part number is:
ACE-TEK272D-12 Dual track 1&2
ACE-TEK272D-23 Dual track 2&3
ACE-TEK272D-33 Triple track 1&2&3
Note:
Optional configuration is available.

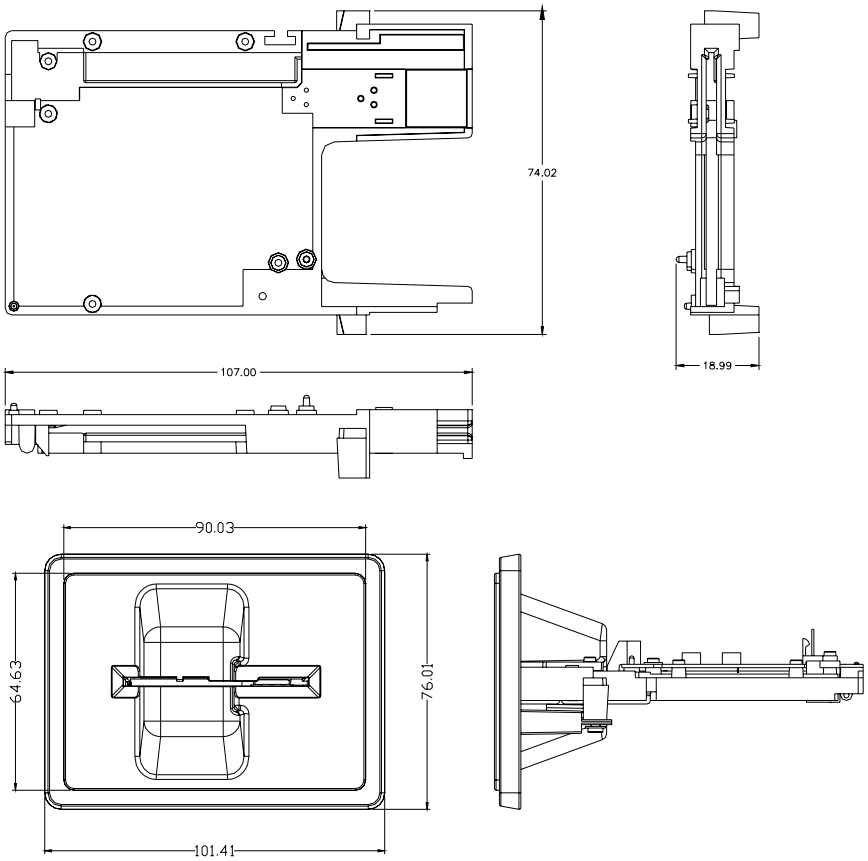
• WARRANTY

This product is served under one-year warranty of defects in material and functionality to the original purchasers. Within the warranty period, if the product found to be defective will be repaired or replaced. This warranty applies to the products only under the normal use of the original purchasers, and in no circumstances covers incidental or consequential damages through consumers' misuse or modification of the product.

• SPECIFICATIONS

Electrical			
Power Requirements	+5VDC ±10%, +3.0VDC to +3.6VDC		
Power Consumption	10mA typical, 15mA Max. (+5VDC)		
Interface	TTL (RS-232 optional)		
Agency Approval	FCC/CE Class B		
Mechanical			
Body Material	PC, UL94V-0		
Dimensions	$110_L \times 101_W \times 76_H$ mm		
Weight	Approx. 75g (Ref. M-bezel model)		
Card Handling Method	Manual insert		
Environment			
Operation	Temperature: -5°C ~ 50°C Humidity: 5% to 95% (non condensing) (Extended temperature model available)		
Storage	Temperature: -40°C ~ 80°C Humidity: 5% to 95% (non condensing)		
Performance			
Card Type	Magnetic card as per ISO7811		
Read Card Format	Track1	Track2	Track3
Bit Density	210bpi	75bpi	210bpi
Swipe Speed	Standard card	Jitter±15%	Amp.60%
	4 ~ 40 ips	5 ~ 35 ips	5 ~ 35 ips
Card Media	Read 300 ~ 4000 oe magnetic stripe		
Card Thickness	0.17mm to 0.9 mm		
Error Rate	< 0.5%		
Magnetic Head Life	500K, 1M life optional		

- **OUTLINE DIMENSION**



- **CABLE SPECIFICATION**

Pin Assignment (J7 & J8)		
Pin No.	Signal	Description
1	Sensor	Back sensor. Active low
2	RDP2	Reverse logic
3	CLS	Active low
4	RCP2	Valid data with falling edge
5	N/C	No connector
6	VCC	+5VDC
7	GND	Ground
8	RCP1	Valid data with falling edge
9	RDP1	Reverse logic
10	RCP3 (Reserve for TK3)	Valid data with falling edge
11	RDP3 (Reserve for TK3)	Reverse logic

Pin Assignment (J1 & J2)		
Pin No.	Signal	Description
1	VCC	+5VDC
2	RDP1	Reverse logic
3	RCP1	Valid data with falling edge
4	RDP2	Reverse logic
5	RCP2	Valid data with falling edge
6	CLS	Active low
7	GND	Ground