



TTM SERIES COMPACT MOTORIZED MAGNETIC STRIPE AND SMART CARD READER

- Pointman TTM series is a compact-size motorized card reader with proven high reliability and security.
- This card reader offers accurate and secure reading of magnetic stripe and smart card data on cards for kiosks, payment systems, and fare collection system etc.
- Various security options such as anti-skimming, secure pre-head and full shutter enable safe and secure user environment.
- It also has optional contactless smart card read and write capability for further demands of card functionality in the field.



MS



IC



RF

APPLICATION

- Banking terminal
- Vending machine
- Fare collection system
- Payment terminal
- Kiosk machine



FEATURES

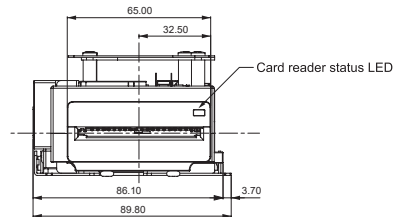
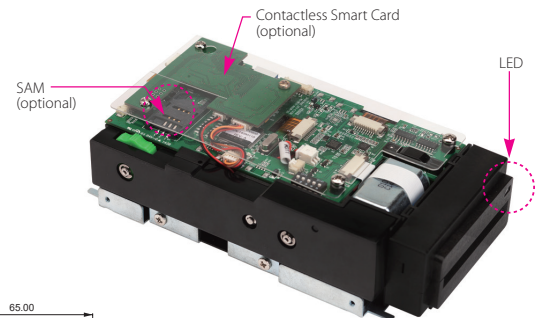
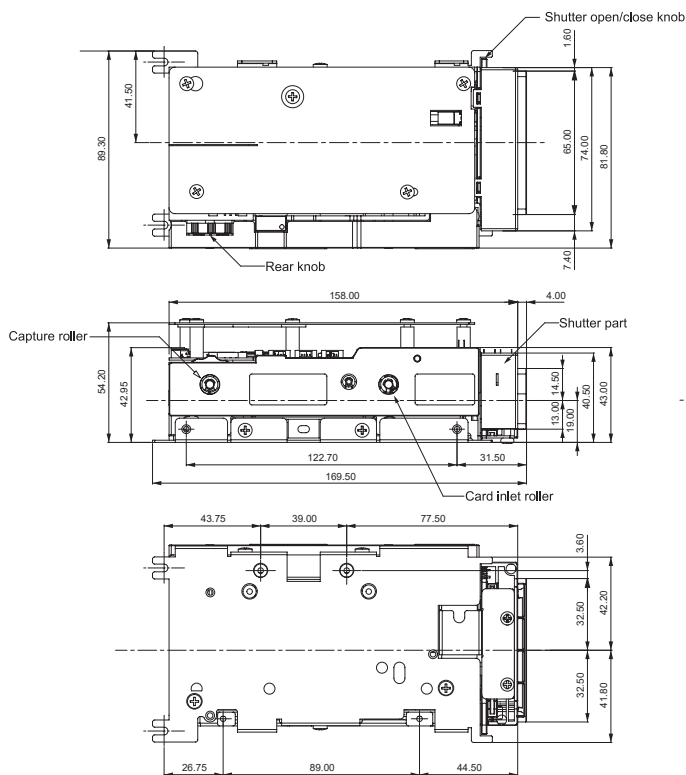
- Magnetic ISO 1 /2/3 track read
- IC card ISO 7816-1/2/3 read/write
- Optional RF Contactless smart card read/write
- Data encryption with triple DES and single DES
- Locking function to prevent card full-out during transaction
- Rear card capture
- RS232C or USB interface
- EMV Level 1 & 2 certified
- Anti-skimming function(optional)

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TECHNICAL SPECIFICATIONS

ITEM	SUB ITEM	DESCRIPTION
Magnetic stripe (Read only)		ISO 7811 (Track 1, 2, 3), JIS II. Coercivity: HiCo/LoCo
		ISO 7816
Contact Smart Card		T=0, T=1 protocol
		EMV Level 1, EMV Level 2(Payment Offline)
		Optional SAM socket
		Mifare, ISO 14443 A / B, Desfire, NFC, Felica (PC/SC or Serial)
Contactless Smart Card (Optional)		*Other types are available upon request
Card Speed		210mm/s±10% capability (at flat card)
Interface		RS232C or USB
Power		+12Vdc ±10%, 3A (basic)
Life Time	Unit	1,000,000 cycle
	Magnetic Stripe Head	250,000 cycle
	Smart Card Contact	300,000 contacts
Temperature	Operating	5~50°C
	Storage	-20~70°C
Humidity	Operating	20 ~ 80RH
	Storage	20 ~ 80RH
Dimension	MS / IC	89.3mm (W) X 169.5mm (H) X 42.95mm (L)
	MS / IC / RF	89.3mm (W) X 169.5mm (H) X 54.2mm (L)
Weight		Less than 500g

Specifications are subject change without notice



ID	Interface	Mag.					IC, SAM			RF	
T : Slim Type(Thin Type)	R : RS-232C U : USB	NO.	ISO1	ISO2	ISO3	Life time	JIS II	NO.	IC	SAM	0 : Non-RF 1 : RF 2 : External RF
		2	R	R	R	50	X	1	O	1	
		4	R	R	R	50	R	3	X	0	