

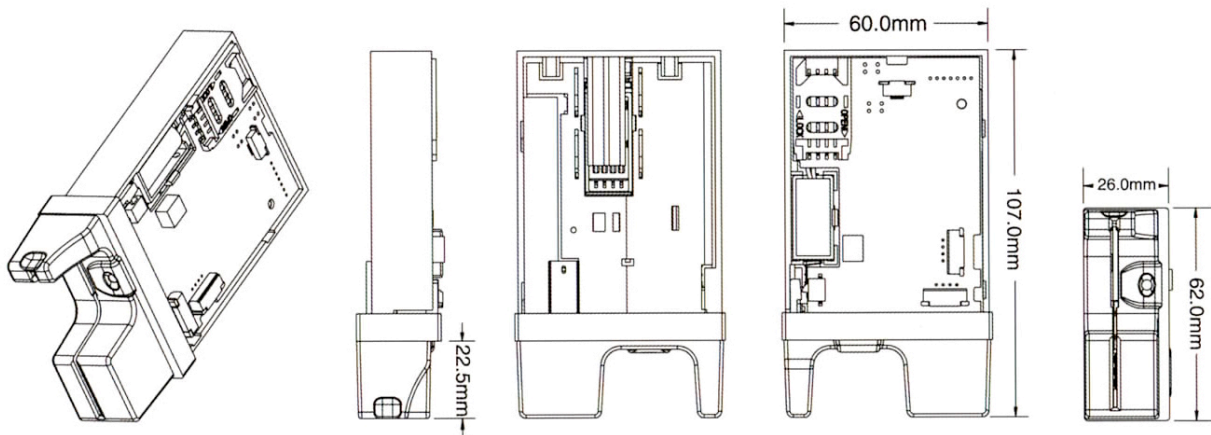
# HCR-330

## Hybrid Card Reader



- EMV Level 1 certified. Read/Write smart cards conform to ISO 7816.
- Read magnetic stripe cards conform to ISO 7811 AAMVA.
- Support memory and CPU cards T=1 / T=0.
- IC card landing contact and card lock capability.
- Built-in one SAM (security access module) socket.
- Program firmware and 4 SAMs field upgradable.
- Bi-color LED indication for card in-position and read/write operations.
- Vandal resistant against coins and debris.
- Manual card eject when power down.

Power Requirement	+5VDC $\pm$ 5%
Consumption	60mA Max. for idle 340mA Max. when magnetic stripe card, IC card and SAM board fully loaded 500mA Max. surge current when solenoid firing
Communication	Standard RS232 signal levels (RS232 format TTL level or USB optional)
Body Material	PC + 15% GF
Dimension and Weight	107 (L) x 62 (W) x 26 (H) mm. Approx. 165g
Card Handling Method	Manual insertion, Bi-directional
Environment	Operation : -10 to +55 $^{\circ}$ C, 10 to 90% humidity Storage : -30 to +70 $^{\circ}$ C, 10 to 90% humidity
Agency approval	FCC class B, UL, cUL, EMV level 1
Card type	Magnetic card as per ISO 7810, 7811/1-6, AAMVA IC card as per ISO 7816/EMV, CPU/Memory card
Read capability	Magnetic stripe single, dual or triple track of low/high coercivity (300-4000 Oe)
Read speed	STD card : 4~40ips, Jitter $\pm$ 15% : 5~35ips, Amp.60% : 5~35ips
Card thickness	0.76 – 1.2mm
Read error rate	< 0.5%
Contact/Head life	Magnetic : Min. 500K pass life, 1M pass life optional IC card : 100K times min.
IC card contact resistance	100m $\Omega$ max.



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