UIC

SCR100
Security Card Reader

The SCR100 is a Magnetic Stripe and Integrated Circuit Card (ICC) reader that is able to process EMV level 2 transactions. The SCR100 is compliant with Payment Card Industry Security Standards Council (PCI SSC) and meets Secure Reading Exchange of Data (SRED) specifications v4.1 which provides very high level data security. The payment data will be encrypted by the method defined in Visa Data Secure Platform (VDSP) that help merchants prevent sensitive account holder data from being compromised. The SCR100 includes VDSP hardware and software point-to-point encryption (P2PE) and tokenization.

Features and Benefits

- MSR and ICC Reader
- Certified with PCI SRED v4.1 & VDSP P2PE
- Conforms to ISO7811, AAMVA for MSR
- Conforms to ISO7816 & EMV Level 1 & 2 certification
- End to End Encryption based on TDES, AES
- DUKPT Key Management
- Read Capability for Magnetic stripe - single, dual or triple track of low/high coercivity (300~4000 Oe)
- Communication Interfaces: RS232 and USB
- LED Indicator for MSR & Smartcard access
- Audio indicating buzzer for MSR reading status
- Manual Insertion
- Magnetic head life of 1M swiped cycles
- ICC card contract life of 500,000 times minimum

Banking

SCR100
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The SCR100 supports End to End Encryption that is based on Triple Data Encryption Standard (TDES), Advanced Encryption Standard (AES) security algorithms and with Derived User Key Per Transaction (DUPKT) key management. The SCR100 have two tri-colors LED as visual indicators and a single-frequency buzzer as audio indicator. It has a detachable cable to support RS232 or USB. It is very reliable with over a million magnetic stripe swipes and half a million smartcard insertions. It meets FCC class B, European Conformity (CE), Bureau of Standards, Metrology and Inspection (BSMI) agency approvals.

Specifications

MECHANICAL

LED Indicator:	MSR and ICCR access
Buzzer:	For MSR reading
Body Material:	PC + ABS
Dimensions:	100(L) x 30.5(W) x 49.5(H) mm
Weight:	Approx. 170g
Card Handling Method:	Manual insertion

ENVIRONMENTAL

Operating Temperature:	0°C to +40°C
Storage Temperature:	-20°C to +60°C
Operating Humidity:	10% to 90%
Storage Humidity:	10% to 90%

INTERFACE

Communications :	USB, RS232 (optional)

SECURITY CERTIFICATION

PCI:	4.x SRED
EMV:	L1 & L2

ELECTRICAL

Power Requirement:	+5VDC
Power Consumption:	200mA Max. in normal condition
Interfaces:	RS232 / USB

PERFORMANCE

Read Card Format:	Track 1: Bit Density 210 bpi
	Track 2: Bit Density 75 bpi
	Track 3: Bit Density 210 bpi
Card Types:	Magnetic cards as per ISO7810, 7811, AAMVA
Read Capability:	Magnetic stripe - single, dual or triple track of low/high coercivity (300~4000 Oe)
Test Card Types:	Standard card: Read Speed 4~40 ips
	Jitter±15%: Read Speed 5~35 ips
	Amp.60%: Read Speed 5~35 ips
Card Thickness:	0.76 ±0.08mm
Error rate:	<0.5%
Magnetic Head Life:	1 M Swipe
IC Card Contact Life:	500K times minimum

AGENCY APPROVAL

FCC Class B, CE, BSMI

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