

K1 Dual Technology Contactless Smart Card Reader is an user friendly and high security physical Access Control reader, it is water proof design that suitable for different indoor and outdoor installation environment, it made by high quality material to ensure enhanced reliability and long-term duration.

Reader high security data encryption output which works with ACX 2080 Gateway or ACX Data Exchanger ensure the data cannot be snooped by external device, totally solve the wiegand signal transmission problem.

Embedded bluetooth technology can read the encrypted virtual credential number from Android phone and iPhone.



FEATURES

- Bluetooth and Contactless Dual Technology Reader
- Optical sensor for tamper protection, I am alive feature
- Supports 125KHz, 13.56MHz ISO 14443 A, B & ISO15693, Bluetooth 4.0
- RED / Green / Blue or mixed color LED Circle Ring for visual notification
- User defined reader's access granted and access denied LED & Buzzer ON / OFF times and interval
- Wiegand, OSDP standard, OSDP secure and the ACX proprietary scramble encryption format
- Waterproof IP65

CARD TECHNOLOGY

Card Technology	Card Number Output	Item No. (RF / RF+BLE)
HID iCLASS	32 ~ 64 bits CSN	K111 / K1T1
HID 125 KHz	HID card number	K112 / K1T2
EM	32 bits CSN	K113 / K1T3
Mifare Classic	32 ~ 56 bits CSN / Sector	K114 / K1T4
SONY Felica CSN	32 ~ 64 bits CSN	K115 / K1T5
Mifare Plus S / X	32 ~ 56 bits CSN / Sector	K116 / K1T6
Mifare DESFire EV1	32 ~ 56 bits CSN / Sector	K117 / K1T7
LEGIC Advant	32 ~ 64 bits CSN / Sector	K118 / K1T8

SPECIFICATION

K1 Bluetooth And Contactless Smart Card Reader	
Card Data Security	Max. 64 bits card number mixed with original CSN, custom AES 128 bits key data encryption, CRC16
Reader Output	Wiegand, OSDP standard, OSDP secure and the ACX proprietary scramble encryption format
Typical Read Range	125 KHz : 5cm+, 13.56 MHz : 4cm+, Bluetooth Technology : 2m to 10m Typical read range achieved in air; different types of metal will cause some degradation Use spacers to space product off metal and improve read range if required.
I Am Alive	User define 1 bytes "I am alive" data in a certain interval
Reader Cable	10 wires. Power, Ground, D0, D1, ACK, Buzzer, hold, RS485(A), RS485(B), spare
Mounting	Wall Switch Size; designed to mount and cover single gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing
Visual Indicator	LED line in RED / Green / Blue / Amber / Purple / White / Light Purple color, user defined LED ON / OFF time interval
Audio Indicator	Internal buzzer, user defined beep sound ON / OFF time interval (ms)
Color	Black or White
Dimension	80mm x 115mm x 16mm
Product Weight	120g
Operating Voltage	9-16 VDC, Linear supply recommended
Operating Current	100mA AVG, 120mA PEAK
Operating Temperature	- 31° to 150° F (-35° to 65° C)
Storage Temperature	- 67° to 185° F (-55° to 85° C)
Operating Humidity	5% to 95% relative humidity non-condensing
Housing Material	Polycarbonate
Cable Distance	RS485 interface : 4000 feet (1200m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent