

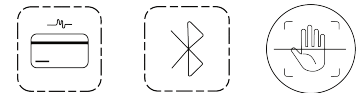
K3 reader adopts Fujitsu PalmSecure technology and also embedded Bluetooth and different kinds of contactless smart card technologies, it becomes a perfect design for true-contactless and high accuracy Bio-metrics, contactless smart card, mobile device cross-platform application.

Fujitsu PalmSecure technology is a palm vein based authentication solution that utilizes industry-leading vascular pattern biometric technology. The Fujitsu PalmSecure sensor uses near-infrared light to capture a person's palm vein pattern in order to generate a unique biometric template which matched with the pre-registered user templates.

ACX K3 reader 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 has wiegand and scramble encryption output which suitable for different security level applications.

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



FEATURES

- Fujitsu PalmSecure, Bluetooth and Contactless Smart Card Technology
- 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	1 ~ 64 bits CSN ; HID card number	K311 / K3T1
HID 125 KHz	HID card number	K312 / K3T2
EM	1 ~ 40 bits CSN	K313 / K3T3
Mifare Classic 1K / 4K	1 ~ 56 bits CSN ; Custom data models	K314 / K3T4
SONY Felica CSN	1 ~ 64 bits CSN	K315 / K3T5
Mifare Plus S / X	1 ~ 56 bits ; Custom data models	K316 / K3T6
Mifare DESFire EV1 / EV2	1 ~ 56 bits ; Custom data models	K317 / K3T7
LEGIC Prime / Advant	1 ~ 64 bits CSN ; Custom data models	K318 / K3T8

SPECIFICATION

K3 Palm Vein Multi-Tech Reader	
Palm Vein Sensor	Fujitsu PalmSecure-Pro F, I33-format
Palm Vein Controller	Works with ACX 8800 Palm Vein / Facial Recognition Panel
F.A.R.	0.00001%
F.R.R.	1.0% (no retry, with I33 format)
Bluetooth	Bluetooth 4.0+, 2.4 GHz
Key Authentication	Custom 128 bits diversify key for custom data model on Mifare Classic, Mifare Plus, Mifare DESFire, LEGIC
Card Data Security	Max. 64 bits card number mixed with CSN, custom AES 128 bits key data encryption, CRC16. Apply for custom data models
Palm Vein Controller Output	Wiegand, OSDP standard, OSDP secure and the ACX proprietary scramble encryption format
Typical Read Range	Palm Vein : 3.5cm to 7.0cm, 125KHz ISO card : 6cm+, 13.56MHz ISO card : 4cm+, Bluetooth Technology : 0.5m 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, apply for wiegand interface
Reader Cable	CAT 7 Cable
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 (ms)
Audio Indicator	Internal buzzer, user defined beep sound ON / OFF time interval (ms)
Color	Black or White
Dimension	80mm x 115mm x 20mm
Product Weight	130g
Operating Voltage	9-16 VDC, Linear supply recommended
Operating Current	120mA AVG, 150mA 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