

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, generating a unique biometric template that is matched against pre-registered user palm vein biometric 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.



KEY FEATURES

- Waterproof IP65
- 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



8800 Palm Vein / Facial Recognition Panel

Specification

| K3 Palm Vein multi-technologies Reader | | | | |
|--|---|-------------------------------------|-------------------------------------|---|
| Palm Vein Sensor | Fujitsu PalmSecure-Pro F, I33-format | | | |
| Card Technology | HID iCLASS | HID 125KHz | EM | Mifare Classic 1K/4K |
| Card number output | 1 ~ 64 bits CSN ; HID card number | HID card number | 1 ~ 40 bits CSN | 1 ~ 56 bits CSN ; Custom data models |
| Item No. (RF / RF+BLE) | K311 / K3T1 | K312 / K3T2 | K313 / K3T3 | K314 / K3T4 |
| Card Technology | SONY Felica CSN | Mifare Plus S/X | Mifare DESFire EV1/EV2 | LEGIC Prime / Advant |
| Card number output | 1 ~ 64 bits CSN | 1 ~ 56 bits ; Custom data models | 1 ~ 56 bits ; Custom data models | 1 ~ 64 bits CSN ; Custom data models |
| Item No. (RF / RF+BLE) | K315 / K3T5 | K316 / K3T6 | K317 / K3T7 | K318 / K3T8 |
| Palm Vein Controller | Works with ACX 8800 Palm Vein Controller | | | |
| F.A.R | 0.00001% | | | |
| F.R.R. | 1.0% (no retry, with I33 format) | | | |
| Bluetooth | Bluetooth 4.0+, 2.4GHz | | | |
| 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 circle ring in Red, Green & Blue color, user defined mixed color and ON / OFF time interval (ms) | | | |
| Audio indicator | Internal buzzer, user defined beep sound ON / OFF time interval (ms) | | | |
| Color | Black or White | | | |
| Dimension | 80 mm x 115 mm x 20 mm | | | |
| 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 | | | |
| Cable Distance | Palm Vein reader to Palm Vein Controller (max. 8 meters CAT 7 cable) Palm Vein Controller to door access controller Wiegand interface: 500 feet (150 m), RS485 interface: 4000 feet (1200 m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent | | | |
| Reader installation Height | It is recommended that the center of the card reader be 1.40 meters above the ground | | | |

8800 Palm Vein / Facial Recognition Panel



KEY FEATURES

- Integrated with ACX Palm Vein Palm Vein and Facial Sever
- Works with ACX K3 / X3 Palm Vein Reader and K8 / X8 Facial Reader
- 1 : N palm vein template matching
- 1 : N Facial Recognition matching (Max. 10,000)
- Wiegand, OSDP standard, OSDP secure and the ACX proprietary scramble encryption format
- Scramble data encryption between PANEL and ACX Server, PANEL to ACX Readers
- True TCP/IP, high speed communication

Specification

Communication

| | |
|----------------|--|
| PC to Panel | TCP/IP, 100Mbps with 128 bits custom key for random encryption |
| Max. Panel | Depends on IP address available |
| Wiring Methods | Panel to Switch, CAT 5 cable (max. 100 meters) |

Inputs / Outputs

| | |
|-------------------------|--|
| Panel Inputs | 1 x ACX K3 or X3 Palm Vein Reader (CAT 6 cable) and; 1 x ACX K8 or X8 Facial Recognition Reader (CAT 6 cable) |
| Panel Output | 1 x Wiegand output (6~8 wires) 1 x ACX scramble RS485 outut (4 wires) |
| TCP/IP | Connect to ACX Pal Vein Server (CAT 5 cable) |
| Access Control Features | Same as ACX.8901 Single Door Access Panel |

Power supply

| | |
|-------------------|-----------------|
| Operating Voltage | 12VDC, 3A input |
|-------------------|-----------------|

Others

| | |
|-----------------------|--|
| Operating Temperature | 0° to 65° C |
| Operating humidity | 0-95% relative humidity non-condensing |
| Dimension | 180mm x 120mm x 20mm |



8800 Facial Recognition and Palm Vein Door Access Controller Schematic Diagram (For K3 and K8 Reader)

