

Note: This product is EOL.

PalmEntry™

Access Control System

PCSC

Product Update



PalmEntry XS™ for Gang Box Installation

Vein Recognition Technology Offers Robust Biometric Authentication to Enhance Physical Access Security

The Fujitsu PalmEntry access control system available from PCSC, is a robust authentication system that utilizes vascular pattern biometric technology to deliver fast and convenient identification. This award-winning innovation offers secure physical and logical access control to customers in health-care, financial services, government, retail, education and other industries.



- Contactless palm vein authentication is fast, hygienic and non-invasive
- No biometric footprint or residual trace left behind
- Advanced biometric authentication algorithm produces a high level of accuracy with low FAR (false accept rate) and FRR (false reject rate)
- Fast and easy enrollment, virtually no registration failure
- Robust biometric controller can be mounted remotely in secure area
- Encrypted template repository
- Compact design with flexible integration for easy installation into existing access control systems via Wiegand or IP interfaces

Combine with the Fully Integrated Fault Tolerant Access Controller

Harness the power of PCSC's patented Fault Tolerant Access Controller for an ultra reliable solution. This IP and IT friendly controller is configurable in rackmount and standard enclosures.

- Fault Tolerant Process
- Automatic Hot Cutover
- Ethernet / PoE Communication
- Peer to Peer Communications
- Optional WirelessMesh Com.
- Fail Safe Operations
- 5 State Alarm Monitoring
- "Threat Level" Card Authorization
- FIPS 201 and TWIC Compliant
- UL294 & UL294B

...and much more!



Contact your PCSC Representative for further details 800.899.PCSC Sales@1pcsc.com PCSCsecurity.com

PalmEntry™

Access Control System

Award-Winning biometric authentication technology for secure access

PalmSecure Vein Recognition Technology Offers Robust Biometric Authentication to Enhance Physical Access Security

- ▶ Contactless palm vein authentication is fast, hygienic and non-invasive
- ▶ No biometric footprint or residual trace left behind after authentication
- ▶ Advanced biometric authentication algorithm produces a high level of accuracy with low FAR (false accept rate) and FRR (false reject rate)
- ▶ Fast and easy enrollment for all users with virtually no registration failure
- ▶ Robust biometric controller can be mounted remotely in secure area
- ▶ Encrypted template repository
- ▶ Compact design with flexible integration for easy installation into existing access control systems via Wiegand or IP interfaces



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PalmEntry

Award-Winning biometric authentication technology for secure access

The Fujitsu PalmEntry access control system, is a robust authentication system that utilizes vascular pattern biometric technology to deliver fast and convenient identification. This award-winning innovation offers secure physical and logical access control to customers in healthcare, financial services, government, retail, education and other industries with a highly reliable, contactless biometric authentication solution that is non-intrusive and easy to use.

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 patterns. The palm vein device can only recognize the pattern if the blood is actively flowing within the individual's veins, which means that forgery is virtually impossible. This advanced, vascular pattern recognition technology not only provides highly reliable authentication with low false accept and reject rates, but also generates fast and easy enrollment.

Compared to fingerprint and other biometric authentication technologies, the Fujitsu PalmEntry Access Control system is a hygienic, contactless solution that is highly applicable to all users including children. PalmSecure authentication is not affected by the presence of hand lotions, chemicals, abrasions, skin conditions or effects of cold environments. PalmEntry access control provides enterprises with a superior security alternative and users will enjoy the fast, simple, and non-intrusive access. It is the ideal solution for secure areas, schools, daycare centers and medical facilities.

The Fujitsu PalmEntry Physical Access Control technology delivers advanced biometric authentication that is easy to integrate into existing hardware infrastructures. To meet multi-factor authentication requirements, the system can be integrated with other modalities including pin pad, magnetic swipe, proximity card, and smart card technologies. Its flexible and scalable PalmEntry Access Control Software can be easily configured to interface with existing access control systems.

PalmEntry Access Control Specifications

Authentication Support

PalmEntry controller can support up to 20,000 templates locally
PalmEntry Server Software can support unlimited templates

Interface I/O

Two USB 2.0, CAT-5, Wiegand IN / OUT, LED cable

Ethernet

10/100Base-T, SMCS PHY

Wiegand Inputs / Outputs

Supports 26 bit, Corporate 1000™
Wiegand input for secondary authentication device

Palm Capture Distance

2 inches from the surface of the sensor (+/- a half inch)

Reliability

MTBF (mean time between failure):
830,000 hours for sensor only. 250,000 hours for controller only

LED's

4 LED's (Ready, Busy, Access granted, Access denied)

Supply voltage

12V to 24V external supply, PoE (if available)
PoE 802.3af (12.5W)

Power consumption

6W

Operating temperature

0°C to 50°C

Outer dimensions (DxWxH)

Controller: 106 x 95 x 28 mm. Handguide: 180 x 111 x 30 mm*

Supported OS

Windows XP

Safety / Agency Approvals

UL 60950-1, CE (EN 55022, EN 55024), FCC (Class A, Part 15)

* excluding optional wall mount bracket



Available through PCSC

Visit <http://www.PCSCsecurity.com/PalmEntry>

Phone: +1-310-303-3600

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Fujitsu Frontech North America

PalmEntryXS™

Access Control System

Biometric Access Control System Delivers Secure, Convenient Access

PalmSecure Vein Recognition Technology Offers Robust Biometric Authentication to Enhance Physical Access Security



- ▶ Contactless palm vein authentication is fast, hygienic and non-invasive
- ▶ No biometric footprint or residual trace left behind after authentication
- ▶ Fast and easy enrollment for all users with virtually no registration failure
- ▶ Robust biometric controller can be mounted remotely in secure area
- ▶ Encrypted template repository secures user information
- ▶ Compact design for easy installation into standard single or 2-Gang Box
- ▶ Configurable as a standalone system or integrated to your existing access control solution via Wiegand or IP interfaces

Benefits

- ▶ Eliminate fraud associated with shared PIN numbers and cards
- ▶ Improve user convenience (no PIN number or cards to worry about forgetting)
- ▶ Slash ongoing support costs by replacing keys, PINs and cards
- ▶ Enhance Security- easily integrates into existing or new systems
- ▶ Easily configurable for single or two factor solutions



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PalmEntryXS™



Authentication Support

PalmEntryXS controller can support up to 20,000 templates locally

Interface I/O

Two USB 2.0, CAT-5, Wiegand IN / OUT, LED cable

Ethernet

10/100Base-T, SMCS PHY

Wiegand Inputs / Outputs

Supports 26 bit, Corporate 1000™
Wiegand input for secondary authentication device

Palm focal length (from sensor surface)

2 inches from the surface of the sensor (+/- a half inch)

Reliability

MTBF (mean time between failure):
1 million hours for sensor only. 250,000 hours for controller only

LED's

4 color display bar: (Ready, Busy, Access Granted, Access Denied)

Supply voltage

12V to 24V external supply, PoE (if available)
PoE 802.3af (12.5W)

Power consumption

6W

Operating temperature

0°C to 50°C

Outer dimensions (DxWxH)

Controller: 106 x 95 x 28 mm. Handguide: 180 x 111 x 30 mm*

Supported OS

Client: Windows 7, XP Pro, Vista
Server: Windows Server 2003

Safety / Agency Approvals

UL 60950-1, CE (EN 55022, EN 55024), FCC (Class A, Part 15)

* excluding optional wall mount bracket

Award-Winning biometric authentication technology for secure access control

The Fujitsu PalmEntryXS access control system, is a robust authentication system that utilizes vascular pattern biometric technology to deliver fast and convenient identification. This award-winning innovation offers secure physical and logical access control with a highly reliable, contactless biometric authentication solution.

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 patterns. The palm vein device can only recognize the pattern if the blood is actively flowing within the individual's veins, which means that forgery is virtually impossible. This advanced, vascular pattern recognition technology not only provides highly reliable authentication with low false accept and reject rates, but also generates fast and easy enrollment.

It is the ideal solution for secure areas, data centers, manufacturing labs, schools, daycare centers and medical facilities. The Fujitsu PalmEntryXS Physical Access Control technology delivers advanced biometric authentication that is easy to integrate into existing hardware infrastructures. Its flexible and scalable PalmEntry Access Control Software can be easily configured to operate independently or interface with existing access control systems. To meet multi-factor authentication requirements, the system can be integrated with other modalities including pin pad, magnetic swipe, proximity card, and smart card technologies.

Unlike other biometric technologies, Fujitsu's PalmSecure does not rely on capturing a surface feature (such as a fingerprint, iris, face or voice image).

As a result, Fujitsu PalmSecure technology is:

- Highly accurate
- Significantly harder to spoof or counterfeit since no 'biometric footprint' is left behind (unlike a latent fingerprint, face, or iris picture or voice recording).
- A non-contact, hygienic technology (extremely important in hospitals and 'public use' applications).
- 'Non-intrusive' and easy to use, (simply place the palm approximately 2" above the reader).
- Not subject to surface conditions that cause other biometrics to perform poorly (such as dry skin, cuts or abrasions, facial hair, glasses, contacts, or sore throat).



Shown with optional wrist guide

Available through PCSC

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Contactless Palm Vein Authentication -PalmSecure™-

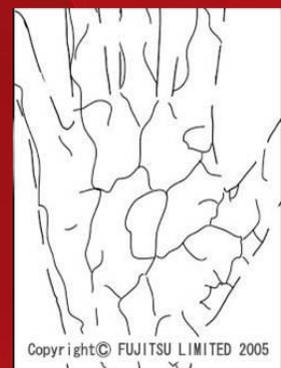
Palm vein authentication is an authentication technology that verifies an individual's identity by recognizing the vein pattern in the palm. PalmSecure™ by FUJITSU FRONTECH adopts this technology. The palm vein device captures a person's vein pattern using near-infrared rays. This captured vein pattern is verified against a pre-enrolled pattern to authenticate the individual.



Palm vein authentication device



Near infrared image



Vein pattern image

Feature

- **Contactless**

Because of its contactless feature, it is very hygienic and stress free for public use.

- **Easy to Use**

Just hold your palm over the device, it captures your vein pattern instantly.

- **Non traceable**

Because of contactless operation, leaves no biometric footprint behind.

- **Advanced Authentication Accuracy**

Our palm vein authentication realize advanced authentication accuracy because the palm vein pattern has many and large size of blood vessels.

False Rejection Rate : 1.00%(No retry), False Acceptance Rate : 0.00001%

- **High Security and Applicability Rate**

Difficult to forgery the palm vein data because it is inside the body.

Almost everyone can use it.



Specifications of PalmSecure™ Sensor

Item	Specifications	
Reading system	Reading by near-infrared light	
Capturing distance	40 to 60mm	
Dimensions	35(W) x 35(D) x 27(H) mm	
Weight	Below 35g	
Voltage of Power supply	4.4 to 5.4V (USB bus power)	
Power consumption	2.5W (Max)	
Host interface	USB2.0 (only Hi Speed).	
Interface connector	Series "mini-B" plug (with 5 pins)	
Interface cable	Maximum operable length of cable: 4m <Recommended connector at the sensor side> ACON brand: MNC12-5K5210 or equivalent	
OS	Professional Edition	Enterprise Edition
	<ul style="list-style-type: none"> - Windows 7 SP1 (x86 and x64) Professional - Windows 8.1 Update (x86 and x64) Pro - Windows 10 (x86 and x64) Pro - Linux (x64) (kernel 2.6.32 or later) *1	<ul style="list-style-type: none"> - Windows Server 2008 R2 SP1 (x64) - Windows Server 2012 (x64) - Windows Server 2012 R2 Update (x64) - Linux (x64) (kernel 2.6.32 or later) *2
Encryption scheme	AES (Length of cryptography key more than 128 bit)	
Temperature	0 to 60 degrees Celsius	
Humidity	10 to 90%RH (Non-condensing)	
Lighting environment	Authentication -Natural light (sunlight) : Below 3000 lux -Fluorescent lamp, LED : Below 3000 lux -Incandescent/Halogen lamps : Below 700 lux Enrollment -Natural light (sunlight) : Below 2000 lux -Fluorescent lamp, LED : Below 2000 lux -Incandescent/Halogen lamps : Below 500 lux (Avoid direct light on the surface of sensor unit)	



Specifications of PalmSecure™ Sensor

Item	Specifications	
Authentication rate	FRR: 1.00% (No Retry), FAR: Below 0.00001% *3	
Authentication time	<Conditions> -Intel® Core i5 3.60GHz -Authentication library SDK V02 Verification (1:1) : 1 second. * Capture: 0.85 Sec. Verify: 0.15 Sec. Identification (1:N) : 4 seconds * Capture: 0.85 Sec. Identify: 3.2 Sec. New F33 method N=5000 hands (2500 people) *4	
Reliability	MTBF : 1,000,000 hours Life of unit : 5 years	
Applicable standard	Electromagnetic wave standard	VCCI ClassB, FCC ClassB, EN ClassB
	Safety standard	UL60950-1, EN60950-1
	Environmental regulation	Conforms to RoHS and WEEE

*1: Sensor connected to client devices will be able to perform enrollment, identification, authentication function.

*2: Only to perform authentication by request of sensor from client side.

*3: Verifying (1 to 1 authentication) with new I33-format type. Measuring method conforming to ISO/IEC 19795-1.

*4: Authentication time depends on the operating environment.

Customers are responsible for confirming authentication time in their operating environment.

* PalmSecure and the logo of PalmSecure is a trademark.

* Windows is Microsoft Corporation in the United States and/or other countries.

* Other company names and product names described in this document are trademarks or registered trademarks of each company.

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