

# Contactless Palm Vein Authentication Software Development Kit -PalmSecure™ SDK-

PalmSecure™ SDK (Software Development Kit) helps you developing solutions and products using the PalmSecure™ sensor.



## Feature

### ■ Easy to Develop

The source codes of sample applications are provided.  
You can use and modify without additional fee.

### ■ Technical Support

PalmSecure™ SDK Support Website offers technical data, enhanced services for related software, and timely Q&A support.

## Application Possibility

- |                            |                 |
|----------------------------|-----------------|
| -PC Log-in system          | -ATM            |
| -Time & attendance system  | -Payment system |
| -Safe Deposit Box          | -Kiosk Terminal |
| -Electronic Medical Record | -Access Control |



## SDK Contents

### < Hardware >

PalmSecure™ Sensor, Guide, Holder, USB interface cable (1m)
---

### < Software >

Authentication library	A library of programs which enrolls palm vein data and authenticates users. The Authentication library enables development of customized applications for the Palm vein authentication system which runs on Windows or Linux.
Sensor driver	The driver for operating the sensor.
Sample Application	Provides C, C++, C#, Java source code and sequence charts that enable easy and rapid architecting of applications. These are available in standalone or client/server configurations.
Interface library sample (Java/VB.NET)	The sample programs which interface between applications created by the Java language or .NET environment and the Authentication library created by the C language.
Sensor maintenance tool	Provides a function to diagnose malfunctions in the sensor that can be used to identify failures.
Introduction tool	A sales support tool that gives an easy to understand introduction to the operation of the palm vein authentication system, including enrollment of vein data and authentication.
Firmware update tool	The firmware update tool provides support for the sensor maintenance. The firmware on the sensor unit can be updated easily with the firmware update tool.

### < Main documents >

System development guide	Describes procedures, precautions, and the development environment for developing palm vein authentication systems.
Authentication library reference guide	The interface (API) specifications for integrating the palm vein authentication functionality into an application.
Interface Library Sample Manual For Java/VB.NET	Describes how to use and apply the Interface Library samples for Java/VB.NET, when the Palm Vein Authentication system application is developed in Java/VB.NET
Hardware drawings	A collection of diagrams related to the sensor and other hardware, and how to mount the sensor. This collection of diagrams can be used to effectively mount the sensor and design the palm guide to suit the customer's equipment.

## PalmSecure™ SDK Support Website

Upon purchasing the PalmSecure™ SDK, the support website offers the latest technical information, a download service for software updates, and handles questions that arise during development.

# Development Environment

## < Professional Edition >

Hardware and Software Requirements		Description
Hardware Requirement	CPU	Intel® Core™ 2 Duo 2.40GHz or more Intel® ULV Celeron® 650MHz or more for Windows XP (Note 1) (must also comply with the recommended value for the given OS)
	Memory (Note 2)	x86 version : 1GB or more x64 version : 2GB or more 256MB or more for Windows XP (must also comply with the recommended value for the given OS)
	USB	USB2.0 only
	HDD space (Note 3)	222MB or more
	Sensor	- PalmSecure Sensor - PalmSecure Sensor V2
Software Requirement	OS (Note 4)	- Windows XP SP3 (x86) [Professional] - Windows Vista SP2 (x86 and x64) [Ultimate] - Windows 7 SP1 (x86 and x64) [Professional] - Windows 8 (x86 and x64) [Pro] - Windows 8.1 (x86 and x64) [Pro] - Linux (x86) (kernel 2.6.32 or later)
Development language (Note 5)		C/C++ (Recommended), C#, VB.NET, Java

- (Note 1) Use an Intel® Core™ 2 Duo at 2.40GHz or faster CPU when identifying is recommended.
- (Note 2) The Authentication library requires 32MB or more memory.
- (Note 3) Minimum required space only for the Authentication library.
- (Note 4) Operations have not been tested in virtual environments (such as XP mode in Windows 7).  
Please verify the operations yourself if you are using this product in a virtual environment.
- (Note 5) Sample application for 32bit and 64bit environment are available

# Development Environment

## < Enterprise Edition >

Hardware and Software Requirements		Description
Hardware Requirement	CPU	Intel® Core™ 2 Duo 2.40GHz or more (must also comply with the recommended value for the given OS)
	Memory (Note 1)	2GB or more (must also comply with the recommended value for the given OS)
	HDD space (Note 2)	222MB or more
Software Requirement	OS (Note 3)	- Windows Server 2008 R2 SP1 (x64) [Standard] - Windows Server 2012 (x64) [Standard] - Windows Server 2012 R2 (x64) [Standard] - Linux (x64) (kernel 2.6.32 or later)
Development language (Note 4)		C/C++ (Recommended), C#, VB.NET, Java

- (Note 1) The Authentication library requires 48MB or more memory.
- (Note 2) Minimum required space only for the Authentication library.
- (Note 3) Operations have not been tested in virtual environments (such as Hyper-V).  
Please verify the operations yourself if you are using this product in a virtual environment.
- (Note 4) Sample application for 32bit and 64bit environment are available.

\* 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.

shaping  
tomorrow  
with you



**FUJITSU LIMITED**

Shiodome City Center, 5-2, Higashi-shimbashi 1-chome

Minato-ku, Tokyo 105-7123, Japan

Tel: +81-3-6252-2662

**FUJITSU FRONTECH LIMITED**

1776 Yanokuchi, Inagi-shi, Tokyo 206-8555, Japan

URL: <http://www.frontech.fujitsu.com/en/>

Contact: <http://www.frontech.fujitsu.com/en/contact/>