

Data Sheet

Biometric Authentication

Fujitsu PalmSecure® F-Pro Suite

Award-winning biometric authentication technology

Fujitsu PalmSecure® technology is a palm vein based authentication solution that utilizes industry-leading vascular pattern biometric technology. The 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. Fujitsu has raised the bar with the PalmSecure F-Pro suite that enhances the capture and authentication of templates. Using advanced vascular pattern recognition technology, the F-Pro provides reliable authentication, with a false accept rate of just 0.00001 percent and an exceptional false reject rate of 1.0 percent. The PalmSecure F-Pro suite includes the F-Pro enhanced sensor, F-Pro and U-Guide, F-Pro Standard and hand guide, and F-Pro Mouse and hand guide.



Key Features

- New sensor is 50% smaller than legacy sensors
- FAR: under 0.00001% and FRR: 1.0% (no retry) (with I33 format)
- Exposure time reduced to prevent blurring when capturing
- Frame rate is increased to capture a slowly moving palm
- Improvement in environmental tolerances
- Fast and easy integration to most applications
- Reduced dimensions makes for easier integration

System integrators who want to provide their customers with the ultimate in biometric identification can now leverage F-Pro products. The F-Pro sensor is half the size of the legacy sensor, making it easier to install where footprint matters. Reduced exposure time enables the sensor to capture and authenticate templates more quickly, and changes to environmental tolerances enable F-Pro to operate in higher ambient sunlight and a wider range of temperature conditions. The palm vein device only recognizes the pattern if the blood is actively flowing within the individual's veins, which means forgery is virtually impossible.

PalmSecure® F-Pro Suite Specifications

Reading System	Near-infrared light pattern capture
Scope of Capture	Entire palm
Capturing Distance	40-60mm Enrollment and 35-70mm Authentication
Dimensions	29 W x 29 D x 13 H mm
Weight	Below 12 g
Voltage of Power Supply	4.4 to 5.4 V
Current Consumption	500 mA (Max at normal-power mode) 900 mA (Max at high-power mode) 50 mA (Max)(power-saving mode)
Power Consumption	USB 2.0 Cable; Maximum length supported is 4m
Interface Connector	Series "Micro-B" plug (with 5 pins)
Installation Environment	Installation Angle: Full direction Temperature: -40 to 85°C Humidity 20 to 90% RH
Material of Surface of Sensor	Glass
Encryption Method	AES (Length of cryptography key more than 128 bit)
Authentication Rate	FAR: under 0.00001% and FRR: 1% (no retry) (w/I33 format)
Applicable Standards	Electromagnetic Wave Standard: VCCI CLASSB, FCC CLASSB, EN CLASSB Safety Standard: UL60950-1, EN60950-1 Environmental Regulation: Conforms to RoHS and WEEE
Warranty	1 year
Mean Time Between Failure (MTBF)	1 million hours
Operating Systems Supported	Windows 7 SP1 (x86 and x64), Windows 8.1 Update (x86 and x64), Windows 10 ver. 1607 (x86 and x64), Linux (x64)(kernel 2.6.32 or later), Windows Server 2008 R2 SP1 (x64), Windows Server 2012 (x64), Windows Server 2012 R2 Update (x64), Windows Server 2016 (x64), Linux (x64)(kernel 2.6.32 or later)



Fujitsu Frontech North America reserves the right to change specifications without notice

Contact Fujitsu Frontech North America

Address: 36 Technology Dr, Suite #150, Irvine, CA, 92618
 Phone: 877-766-7545
 Email: FNAsales@fujitsu.com
 Website: fujitsufrontechna.com/f-pro



©2023 Copyright Fujitsu Frontech North America Inc. All rights reserved. Fujitsu and the Fujitsu logo are registered trademarks. All other trademarks are the property of their respective owners. Statements herein are based on normal operating conditions and are not intended to create any implied warranty of merchantability or fitness for a particular purpose. Fujitsu Frontech North America Inc. reserves the right to modify, at any time without notice, these statements, our services, products, and their warranty and performance specifications.