SG1-1013A-000 (10/13)



Datasheet



Our company focuses all of our efforts on creating the highest possible quality in fingerprint sensor technology at an affordable price. We hope that this product meets your requirements, and we welcome your feedback.

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1. General Description

The FP is a compact, USB Single Finger Capture Device that captures highly accurate, high quality fingerprint images. The FP is certified as meeting or exceeding minimum FBI interoperability standards that ensure high quality images under the PIV-071006 standard established by NIST. Specifically, the FP is certified for used in the FIPS 201 PIV program as well as FAP 20 Mobile ID implementations. The FP is a USB 2.0 supported device and includes Auto-On[™], automatic finger placement detection capability.

Key Features

- FBI Certified for FIPS 201 (PIV) & FAP 20 Mobile ID Compliance
- ICAO Compliant Image Quality
- Auto-On™
- Smart Capture™
- USB 2.0 Hi-Speed Compliant
- Bulk mode transfer
- Programmable serial number
- Multi-Device connection support
- USB bus-powered
- SDKs available for integration
 into applications

Applications

- PC Peripherals
- PIV Fingerprint Verification Station
- Government Logical Access Control
- Airport Security
- E-Passport Fingerprint Scanner

Auto-On and Smart Capture

Auto-On (Automatic Finger Placement Detection) and Smart Capture (Automatic Image Quality Adjustment) are technologies implemented in the FP, but they must be used in conjunction with software applications, such as those developed with Software Developer Kits, in order to enable these functions.



2. Specifications

Optical		
Image Sensor	CMOS	
Image Resolution	500 PPI	
Image Size	300 x 400 pixels	
Platen Size	18.2 mm x 22.9 mm	
Effective Sensing Area	15.24 mm x 20.32 mm	
Image Grayscale	256 levels (8-bit)	
Light Source	Red LED	
Lifetime (typical)	60,000 hours	
Electrical		
Supply Voltage	5.0V DC <u>+</u> 5% via USB	
Current Consumption (max)	150 mA	
General		
Dimensions (W x L x H)	30.0 x 46.6 x 22.2 mm	
Operating Temperature	-20°C ~ 65°C	
Operating Humidity	90% RH or less, noncondensing	
Other		
USB	USB 1.1 Full-Speed and USB 2.0 Hi-Speed	
Image Capture Speed	0.2 ~ 0.5 seconds with Smart Capture™ (varies according to finger condition)	
Operating Systems Supported	Windows 8 / 7 / Vista / XP / 2000 / CE, Server 2008 R2 / 2003, Linux, Android 4.1 & above	



4. Connector Specifications

Name	Connector	Part Number	Vendor
J2	5 Pin	53047-0510 Match Connector (51021-05)	Molex

J2 (5 Pin) Connector Description – USB I/O

Pin No	Name	States	Description
1	USB_VCC	Power	USB Power (DC +5V)
2	USB_DM	I/O/Z	USB D-
3	USB_DP	I/O/Z	USB D+
4	USB_GND	Power	Ground
5	USB_SHIELD	Power	Shield

5. Ordering Information

Product	Part-number	Description
FP	EA4-0017A	optical fingerprint sensor module and USB cable.
FP	EA4-0017ANC	optical fingerprint sensor module (without USB cable).
FP	EA4-0017M	optical fingerprint sensor module and microUSB cable.

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