

Slick Capacitive Fingerprint Scanner

Model : MARC11 | OEM Module / Sensor : MOPvC11

MANTRA



Applications

- Banking
- Corporates
- Public distribution system
- Payment
- Institution
- Merchant Payment
- E-Governance

Features



Scratch free
sensor surface



Latent Finger Detection



Lower FAR and FRR



USB 2.0 interface
with plug and play



508 DPI Capacitive
fingerprint sensor



Support Android



FAP10 Capacitive Sensor



IP54 water and
dust protection

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MARC11 is a secure and reliable L1 fingerprint scanner for precise identification, verification and authentication process. MARC11 captures high-resolution fingerprint images with the most rugged and advanced Capacitive sensor. The device supports MINEX compliance embedded extractor which is a FAP10 compliant fingerprint device.

At a Glance

Sensor

Parameters	Specification
Fingerprint Sensor Type	: FAP10 Capacitive Sensor
Pixel Resolution	: 508 dpi +/- 2%
Platen size	: 12.8mm x 18mm
Image Size	: 256 x 360 Pixels
Image Grayscale	: 256 Gray Level (8 - Bit Image)
Maximum Acquisition time (Placement to Template)	: < 2 Sec
Module Approx. Dimension (L x W x H)	: 35mm X 23mm X 5mm
Device Approx. Dimension (L x W x H)	: 58.1mm x 33.3mm x 11mm
Approx. Weight	: 0.040 Kg
Capture mode	: Auto Finger detection functionality & Auto capture with built-in quality check (Incorporates NIST quality considerations)
Latent Finger Detection	: Supported
MTBF	: 50000 Hours
Wear & Tear cycle of sensor	: 1 Million
Cross Cut	: 5B
Surface Hardness	: 7H
SALT Spray Test	: IEC 60068-2-11/IS 9844/ASTM G 85

Security

Crypto operation	: Hardware base RSA2048 Key Generation, AES-GCM-256, SHA-256, TRNG support
Secure Memory	: TEE support by the device. Secure memory support key wrapping feature
Secure Boot	: Secure boot support by the device

Interface

Parameters	Specification
Protocol	: USB2.0
Connector	: USB Type-A Male

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Electrical

Parameters	Specification
Operating Voltage	: +5.0V $\pm$ 5%
Current Consumptions	: Operating Current: < 50 mA & Standby Current : < 30 mA

Environmental

Parameters	Specification
Operating Temperature	: -20°C to +70°C
Storage Temperature	: -20°C to +85°C
Humidity (Operating / Storage)	: < 90% RH, Non-condensing

Compliant to Following Standard

Parameters	Specification
Biometric Data Interchange Format	: ISO 19794-2 : 2005 & 2011 : ISO 19794-4 : 2005 & 2011, WSQ3.1
EMI / EMC Compliance	: CE & FCC Part 15B class A
ESD protection	: Contact Discharge: +/- 8kV, Air Discharge: +/- 15kV
Environmental, Health and Safety	: RoHS
Safety	: EN/IEC 62368-1, IS 13252 (Part 1)
Image Quality	: FBI PIV Certification, Mobile-ID FAP10, STQC
IP Rating	: IP54 (Device Level), IP67 (Platen Area)

System Requirements

Parameters	Specification
Operating System	: Android
Standard Software/SDK	: UIDAI L1 RD Service

