

# MARC11

## Slick Capacitive Fingerprint Scanner

Model : MARC11 | OEM Module / Sensor : MOPvC11



Operating  
Systems



USB 2.0



IP54











Lower  
FAR & FRR



STQC / Aadhaar  
Certified

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 FAPI0 compliant fingerprint device.

## Main Features

-  Scratch free sensor surface
-  USB 2.0 interface with plug and play
-  Latent Finger Detection
-  FAP10 Capacitive Sensor
-  500 DPI Capacitive fingerprint sensor
-  IP54 water and dust protection
-  Lowest FAR and FRR
-  Support Windows, Android

## Application

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

## Benefits

- Compact device
- Convenient to carry
- Easy-to-handle
- Simple to operate



## Technical Specification

### Sensor

<b>Fingerprint Sensor Type</b> FAP10 Capacitive Sensor	<b>Spatial Resolution</b> 500 DPI +/- 2%	<b>Platen Area</b> 12.8.0 mm x 18.0 mm
<b>Image size</b> 256 x 360 Pixels	<b>Image Grayscale</b> 256 (8 - Bit Gray Level)	<b>Light Source</b> Red LED
<b>Maximum Acquisition time (Placement to Template)</b> < 2 Sec	<b>Device Approx. Dimension (L x W x H)</b> 58.1 x 33.3 x 11 mm	<b>Approx. Weight</b> 0.040 kg
<b>Capture mode</b> Auto capture with built-in quality check (incorporates NIST quality considerations)	<b>Module Approx. Dimension (L x W x H)</b> 35 x 23 x 5 mm	<b>Certifications</b> CE, RoHS, BIS, IP54
<b>Latent Finger Detection</b> Supported	<b>MTBF</b> 50000 Hours	<b>Wear &amp; Tear cycle of sensor</b> 1 Million
<b>SALT Spray Test</b> IEC 60068-2-11/IS 9844/ASTM G 85	<b>Surface Hardness</b> 7H	<b>Cross Cut</b> 5B

### Security

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

<b>Operating Voltage</b> 5V +/- 5% (USB Powered Device)	<b>Operating Current</b> <50 mA
<b>Stand by Current</b> <30 mA	<b>Interface</b> USB 2.0

### Environmental

<b>Operating Temperature</b> -20°C to +70°C	<b>Storage Temperature</b> -20°C to +85°C	<b>Humidity (Operating / Storage)</b> < 90% RH, Non-condensing
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### Compliant to Following Standard

<b>Biometric Data Interchange Format</b> ISO 19794-2 : 2005 & 2011 ISO 19794-4 : 2005 & 2011, WSQ3.1	<b>Safety</b> EN/IEC 62368-1, IS 13252 (Part 1)	<b>EMI / EMC Compliance</b> CE, FCC Part 15B class A
<b>Environmental, Health and Safety</b> RoHS	<b>Image Quality Compliance</b> FBI PIV Certification, Mobile-ID FAP10, STQC	<b>IP Rating</b> IP54 (Device Level), IP67 (Platen Area)
<b>Operating System</b> Windows 10 above, Linux, Android	<b>Standard Software/SDK</b> UIDAI L1 RD Service	

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