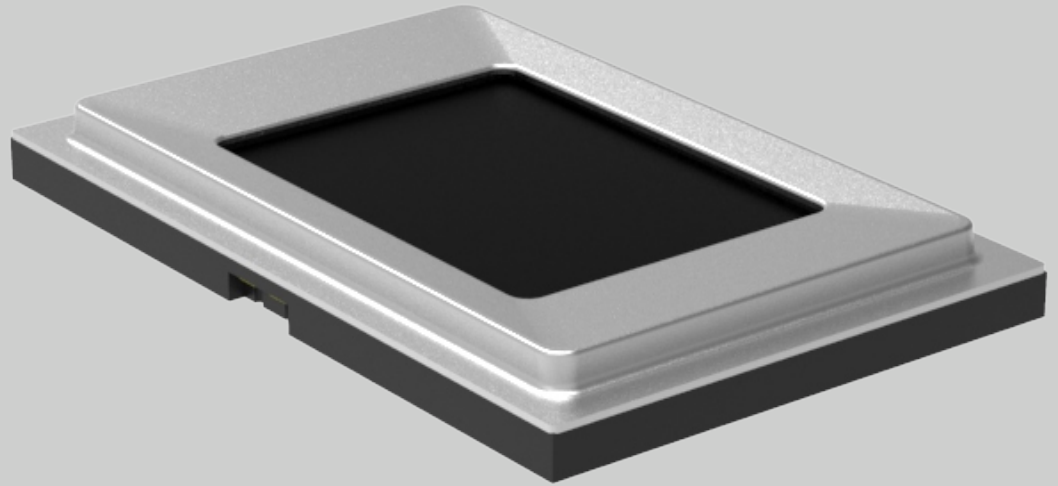


# Slick Capacitive Fingerprint Scanner

Model : MARC10 | OEM Module / Sensor : MOPvC10

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



500 DPI Capacitive  
fingerprint sensor



Support  
Windows, Android, Linux



FBI PIV & Mobile ID Certified  
FAP10 Capacitive Sensor

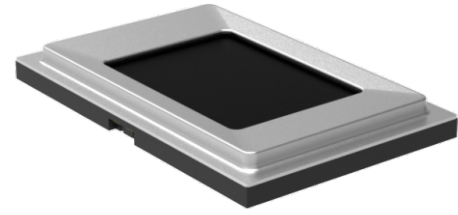


IP67 water and dust  
Protected Platen Area

# Slick Capacitive Fingerprint Scanner

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MARC10 is a secure and reliable fingerprint scanner for precise identification, verification and authentication process. MARC10 captures high-resolution fingerprint images with the most rugged and advanced Capacitive sensor. The device supports MINEX compliance embedded extractor.



## At a Glance

### Sensor

Parameters	Specification
Fingerprint Sensor Type	: FAP10 Capacitive Sensor
Pixel Resolution	: 500 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
FRR & FAR	: <0.1% & <0.001%
Module Approx. Dimension (L x W x H)	: 35mm X 23mm X 5mm
Approx. Weight	: 0.010 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

### Interface

Parameters	Specification
Protocol	: USB2.0, SPI (Up to 24 Mbps), UART (Baud Rate- Default 9600, Up to 115200)
Connector	: Module: Wire to Board **

### Electrical

Parameters	Specification
Operating Voltage	: +5.0V ±5% (USB or UART Powered Device) +3.3V±3% (Only for SPI Powered Device)
Current Consumptions	: Operating Current: < 50mA & Standby Current : < 30mA

# Slick Capacitive Fingerprint Scanner

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## Environmental

Parameters	Specification
Operating Temperature	: -10°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 and ANSI 378 : 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
IP Rating	: IP67 (Platen Area)
Device Driver	: WHQL certified driver

## System Requirements

Parameters	Specification
Operating System	: Windows 7, 10 & 11, Android & Linux
Standard Software/SDK	: 1:1 Matching: MORFIN_AUTH, : 1:N Matching: MORFIN_SEARCH



\*\* FPC Connector available for USB, UART & SPI interface