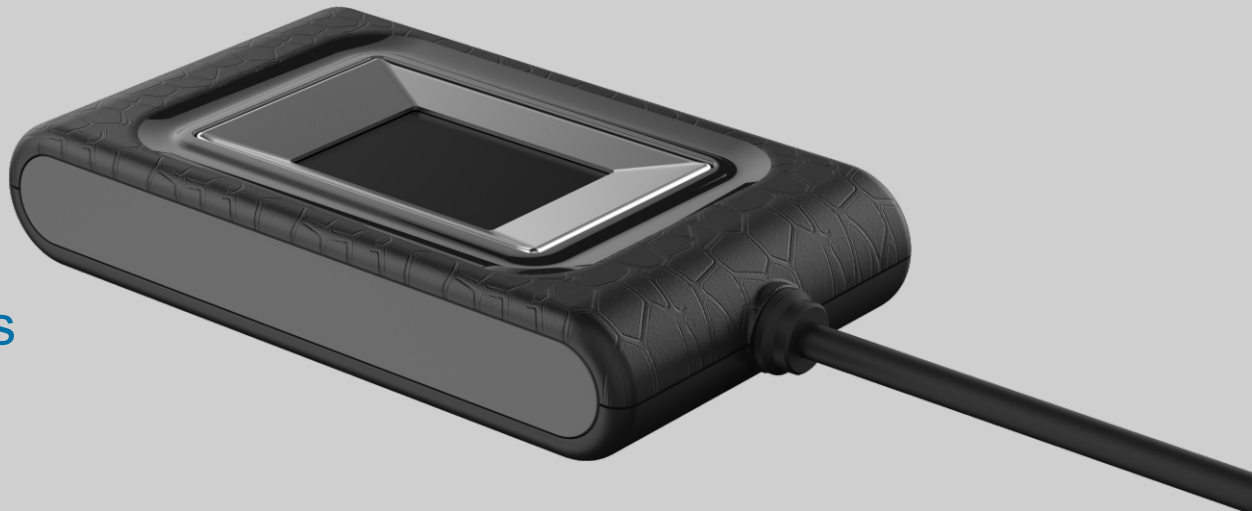


Slick Capacitive Fingerprint Scanner

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 Device



IP54 water and dust
Protected Device

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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
Device Approx. Dimension (L x W x H)	: 58.1mm x 33.3mm x 12mm
Approx. Weight	: 0.040kg
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	: Product: USB Type-A Male, 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: < 50 mA & Standby Current: < 30 mA

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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	: IP54 (Device Level), 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



* UART & SPI interface is available in sensor module only

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