

MARC10

Slick Capacitive Fingerprint Scanner

Mantra Softech is a Global Hi-Tech Manufacturer of Biometric Products and Solutions.

We offer a Wide Range of Products in Biometric and RFID Industry.



Operating
Systems



USB 2.0



Fingerprint
Scanner

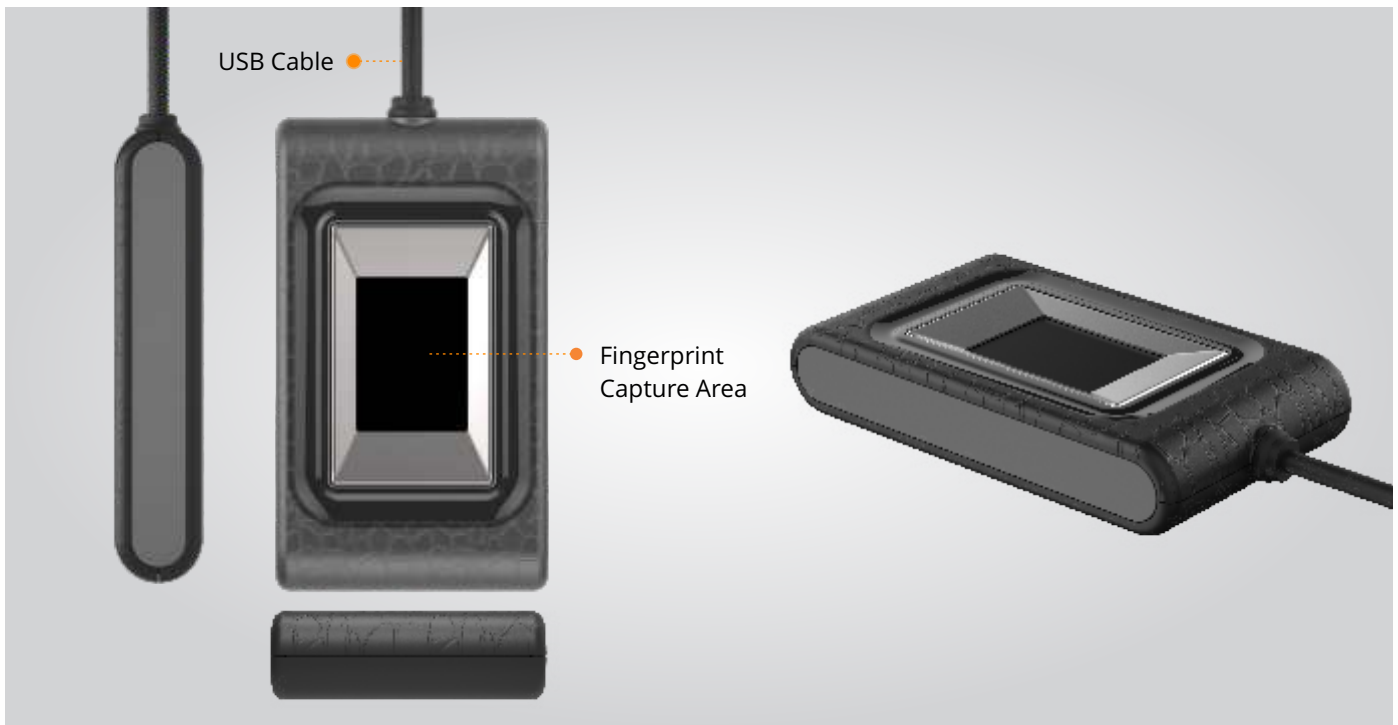


Lower
FAR & FRR



FBI PIV & Mobile
ID Certified





Introduction

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 which is a FAP10 compliant fingerprint device.

Benefits

- ◆ Scratch resistant
- ◆ Higher accuracy
- ◆ Easy integration
- ◆ Best image quality
- ◆ Higher usability

Features

-  FBI PIV and FBI Mobile ID FAP10 certified***
-  Latent Fingerprint detection
-  Support ISO 19794-2 for minutiae & ISO 19794-4 for Image Template Biometric Data Interchange Format
-  Lower FRR and FAR
-  IP54 water and dust protection for harsh environments

Application



Banking



Corporates



Public distribution system



Payment



Institution



Merchant Payment



E-Governance

 At a Glance

Sensor Characteristics	Fingerprint Sensor Type	: FAP10 Capacitive Sensor
	Pixel Resolution	: 500 dpi +/- 2%
	Platen size	: 12.7mm x 16.5mm
	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 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
Interface	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 Characteristics	Operating Voltage	: +5.0V ±5% (USB/UART Powered) +3.3V±3% (Only for SPI Powered)
	Current Consumptions	: Operating Current: < 50 mA & Standby Current : < 30 mA
Environmental Characteristics	Operating Temperature	: -20°C to +70°C
	Storage Temperature	: -20°C to +85°C
	Humidity (Operating / Storage)	: < 90% RH, Non-condensing

At a Glance

Compliant to Following Standard	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	Operating System	: Windows x86 & x64, Android, Linux
	Standard Software/SDK	: 1:N Matching: MID Finger_Search, : 1:1 Matching: MID Finger_AUTH

Certification



* UART & SPI interface is available in sensor module only

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

*** Under Certification

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