

MFS500 MX

Optical Fingerprint Scanner

Integrated with MOSIP*



Operating
Systems



USB 2.0



IP54



Lower
FAR & FRR



STQC / Aadhaar
Certified

MFS500 MX is a fingerprint scanner with high durability that ensures robustness. MFS500 MX is MINEX compliance embedded extractor fingerprint device. The device offers precise and rapid verification, authentication and authorization processes. MFS500 MX is a safe and convenient device that lets the fingerprint act as a password.

Main Features

-  Scratch free sensor surface
-  USB 2.0 interface with plug and play
-  MINEX Compliance extractor
-  Latent & Auto Finger Detection
-  500 DPI Capacitive fingerprint sensor
-  IP54 water and dust protection
-  Lowest FAR and FRR
-  180 Degree rotation authentication
-  Support Windows, Android, Linux

Application

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

Benefits

- Easy to integrate
- Offers high accuracy
- Easier and faster to use
- FBI PIV Certified*
- High Speed USB 2.0 interface



Technical Specification

Sensor

Fingerprint Sensor Type Optical Scratch-free Sensor	Image Resolution 500 DPI +/- 2%	Platen Area 16.4 mm x 20.0 mm
Active Platen Size 15 mm x 18 mm	Image size 296 x 354 Pixels	Image Grayscale 256 (8 - Bit Gray Level)
Maximum Acquisition time (Placement to Template) < 2 Sec	Approx. Dimension (L x W x H) 85mm x 51mm x 54mm	Approx. Weight 0.125Kg
Capture mode Auto capture with built-in quality check (incorporates NIST quality considerations)	Certifications CE, RoHS, BIS, IP54	Light Source Red LED

Security

Crypto operation Hardware base, AES-256, SHA-256, RSA-2048.	Boot Secure boot support by the device
Secure Memory On-board secure memory with TEE, SEE & support key wrapping feature.	OTA Capability Encrypted communication (HTTPS / TLS 1.2 or higher). Verification using cryptography (RSA-2048 / ECC-256)

Electrical

Operating Voltage 5V +/- 5% (USB Powered Device)	Operating Current <200 mA
Stand by Current 130 mA (Approximately)	Interface USB 2.0 (High Speed)

Environmental

Operating Temperature -10 to 50 °C	Storage Temperature -10 to 50 °C	Humidity (Operating / Storage) < 90% RH, Non-condensing
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Compliant to Following Standard

Biometric Data Interchange Format ISO 19794-4 : 2005 & 2011 Image Template (WSQ3.1, JPEG2000)	Safety EN/IEC 62368-1, IS 13252 (Part 1)	EMI / EMC Compliance CE, FCC Part 15B class A
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Environmental, Health and Safety RoHS	Image Quality Compliance FBI PIV Certified*	IP Rating IP54
Operating System Windows, Android, Linux	Device Driver WHQL certified with unique serial number	SDK Support MOSIP Compliant SBI Service

*Applied for certification

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