

FM220UL1

Fingerprint Reader

- UIDAI Approved L1 authentication Device for Aadhaar
- STQC Certified Single Finger Scanner
- BIS Registration No. : R-72003948
Confirming to IS 13252(PART I):2010 + A1:2013 A2:2015/IEC 60950-1:2005 + A1:2009 + A2:2013
- Device as per MOSIP L1 and UIDAI L1 specs, having Pre certified Renesas Controller.



- Every device having a unique identifier allowing traceability, analytics, and fraud management. every device having a unique identifier allowing traceability, analytics, and fraud management.
- Biometric data is signed within the device using the device key to insure it is indeed captured live. Then the Registered Device (RD) Service of the device provider must form the encrypted PID block before returning to the host application.
- This RD Service (exposed via Service interface defined in this spec) encapsulates the biometric capture, any user experience while capture (such as preview) and signing and encryption of biometrics all within it.
- All of the processes related to create a biometric PID block is executed within the TEE
- Small template size, ISO & PIV, BIS approved.
- The reader is totally shock proof, for accidental falls from table.
- Suitably protected against dust and water ingress, IP54
- Having Secure boot, Encryption in trust zone, FTM Supported Security

Security Parameters Specification

- Crypto operation : Hardware base RSA2048 Key Generation, AES GCM-250,SHA-256, TRNG support
- Secure Memory : TEE support by the device. Secure memory support key wrapping feature
- Secure Boot : Secure boot support by the device



Sensors	Optical
Image Resolution	500 dpi (H), 500 dpi (V)
Image Capture Area	15.44 x 17.475 (mm)
Platen Area	16.5x19 (in mm) (HxV)
Scanner Output image Size/Native	304 x 344 pixel (HxV)
Gray Level	8 bit/pixel, max 256 gray scales
Dimension	80mm(L) x 41mm(M)x40mm(H)
Weight	100g (approx)
Distortion	<1% Meeting PIV specifications
Operating Temperature, ESD	-50~45OC, 10 KV
MTBF	>100000 operation hours
Scanning Light source	Ultra Red (940nm) capable of support more than 600 dpi
Connectivity	USB (Type - C, Micro USB, Type-A) Serial Port (Rs232, Bluetooth)
Standards	ISO 19794-2, ISO 19794-4, FIPS 201* Compliant, Minex-III
Image	Supporting JPEG 2000 lossless, ISO, PIV WSQ (Compression 10:1)
Supported Operating Systems	Windows, Android and Linux Supported

Technical Support

Radium Support Team

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This information can be shared with your clients or end user for any kind of technical support.

