

MatriXcan Panel

Revolutionary MatriXcan Panel for capturing best quality of images

MatriXcan Mapping

BPS
Bipolar Sampling

PRS
Partial Response
Synthesization

PNZ
Pixel Normalization

AGS
Anti Ghosting Scan



MatriXcan Extracting

Extract most minutiae you've ever seen

MatriXcan™

REVOLUTIONARY TECHNOLOGY

Differing from two kinds of typical fingerprint verification solution, optical and capacitive, iMD's world-leading technology MatriXcan™ is able to capture the best quality of fingerprint images, to extract most minutiae you have ever seen, and to output with outstanding speed and security.

MatriXcan™, the extremely clear and distinct images captured on dry or worn fingers makes the high possibility to adapt all sorts of finger conditions without exceptions.

ANSWER IS
YOUR ANSWER

ROSSII

GF851EM / GF851EM-S

Fingerprint Module
Easy Integration



FEATURE

- Remarkable GF Series Fingerprint Sensor!
- 4-4-2 fingers registration/verification
- Outstanding image quality on dry/worn/ wet fingers
- Low power consumption
- Latent print, UV, strong light resistance
- Live Finger Detection
- Slim and compact design
- Hard surface for scratch protection Excellent
- ESD performance
- High security and reliability
- Encryption Function (GF851EM-S)
- Ingress protection IP65

SPECIFICATIONS

Item	Parameters
Model Name	GF851EM / GF851EM-S
Image Size	1600 Pixels x 1000 Pixels
Sensing Area	81.28 mm x 50.8 mm
Platen Area	83.4 mm x 70.2 mm
Resolution	500 dpi
FPS	Flats: 10 / sec, Rolls : 15 / sec
LFD	Supported
Power Consumption (read image)	450 mA
Power Consumption (standby)	160 mA
Interface	USB Type-C / USB 2.0 (4 pin)
Device Size	115.49 mm x 90.49 mm x 13.2 mm
Device Weight	110.1 g
ESD Level	IEC 61000-4-2 Level4
Certifications	FBI: Appendix F (FAP50); FCC Part 15, RoHS, CE
OS Support	Windows7+; Linux(X64, ARM); Android 4.2+
IP Rating	IP65
Temperature [Operation / Storage]	-20°C ~ +70°C / -40°C ~ +80°C