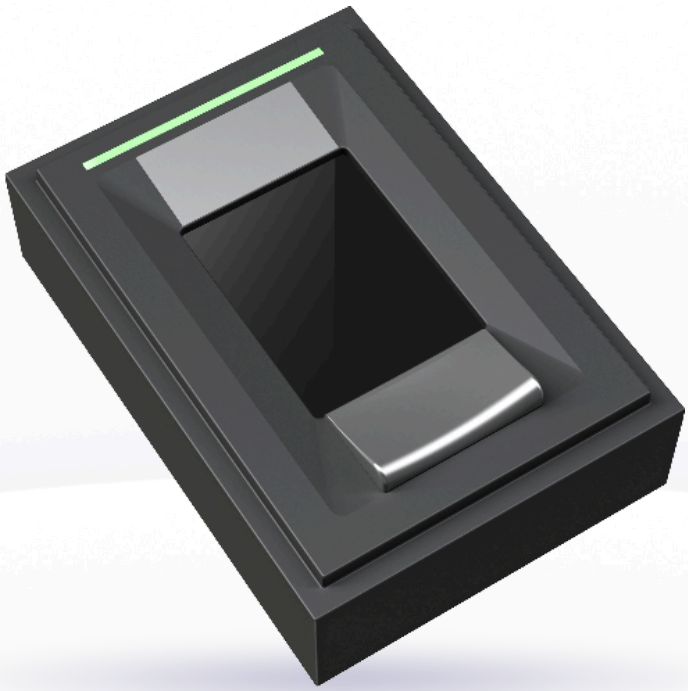
IMAGE MATCH DESIGN

FINGERPRINT MODULE
FAP 20 · EDM 2026

INDICUS

GF421DM · FAP 20

Secure Fingerprint Enrollment & Verification



RESOLUTION	IMAGE SIZE	SENSING AREA	CAPTURE RATE	PROTECTION
500 dpi	300 × 400 pixels	15.24 × 20.32 mm	11 flats per sec	IP65 dust & water

A compact module, ready to embed.

The INDICUS GF421DM is a compact, high-precision fingerprint module built for easy integration. Powered by MatriXcan™, it delivers clear, high-detail images across dry, wet and worn fingers. With low power consumption, strong spoof detection and IP65-sealed durability, the GF421DM ensures reliable performance for enterprise, government and identity-management systems.

RoHS COMPLIANT	FBI	FCC	CE	ISO
	PIV (FAP 20) FIPS 201	Part 15 Class B	EN 55032 / 55035 Class B · Immunity	19794-4 Template output

One Touch. Infinite Trust.

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FEATURES

Key features

- Remarkable MatriXcan™ fingerprint sensor
- 1 finger registration / verification
- Live finger detection
- High security and reliability
- Outstanding image quality on dry / worn fingers
- Low power consumption
- Latent print, UV, strong light resistance
- Hard surface for scratch protection
- Excellent ESD performance
- RoHS compliant and low-halogen
- Slim and compact design
- Encryption function
- IP65, sealed bezel to scanning surface

SPECIFICATIONS

Technical specifications

GENERAL	
Model name	GF421DM
Image size	300 × 400 pixels
Sensing area	15.24 × 20.32 mm
Platen area	15.88 × 35.97 mm
Resolution	500 dpi
Grayscale	256 (8 bit)
Image format	PNG, BMP, JPEG, RAW, WSQ 10:1 (0.8), WSQ 15:1 (0.53), High-Quality WSQ, Low Compression WSQ
FPS	Flats 11/sec
LED indicator	RGB
LFD	Supported (HW / SW)
Interface	USB 2.0 Full Speed / 5-pin wafer connector
Power (read image)	95 mA
Power (standby)	80 – 90 mA
ESD level	IEC 61000-4-2 Level 4
Encryption	AES CBC 128/192/256 · AES ECB 128/192/256

PHYSICAL & ENVIRONMENTAL	
Device size	48.2 × 33.8 × 14.9 mm
Device weight	20.1 g
Operating temp.	−20 °C to +70 °C
Storage temp.	−40 °C to +80 °C
Protection	IP65 (sealed bezel to scanning surface)
RCA	200 cycles
MTBF	> 25 years

CERTIFICATIONS	
FBI	PIV (FAP 20) / FIPS 201
FCC	Part 15 (per ANSI C63.4:2014) Class B
CE	EN 55032:2015+A1:2020 Class B · Immunity EN 55035:2017+A11:2020 · IEC 61000-4-2:2008 · IEC 61000-4-3:2020
Standards	ISO/IEC 19794-4:2005 / 2011

OS SUPPORT	
Windows	Windows 7 or higher
Linux	Linux (x64, ARM)
Android	Android 4.2 or higher

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Specifications per INDICUS_GF421DM_Module_datasheet (250904 V1.1) · subject to change without notice

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