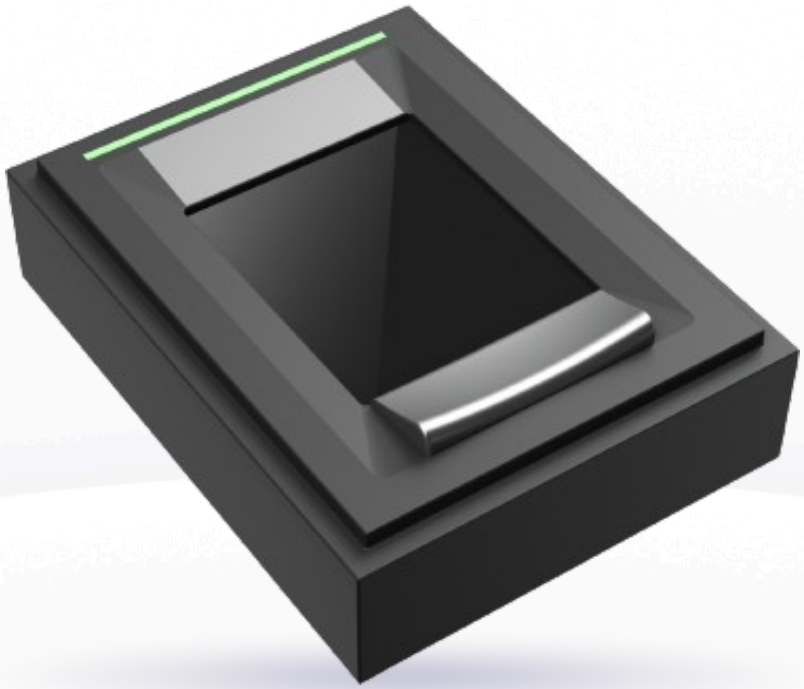
IMAGE MATCH DESIGN

FINGERPRINT MODULE
FAP 30 · EDM 2026

FABALIS

GF631CM · FAP 30

High-Precision Single-Finger Enrollment



RESOLUTION	IMAGE SIZE	SENSING AREA	PLATEN AREA	PROTECTION
500 dpi	400 × 500 pixels	20.32 × 25.4 mm	21.84 × 39.47 mm	IP65 dust & water

A compact fingerprint module, ready to embed.

The FABALIS GF631CM is a compact, thumb-optimized fingerprint module delivering sharp MatriXcan™ images in all conditions. Its low power use, spoof-detection support and IP65-sealed durability ensure reliable performance in a variety of secure applications.

RoHS COMPLIANT	FBI	FCC	CE	ISO
	PIV (FAP 30) Certified	Part 15 Class B	EN 55032 / 55035 Class B · Immunity	19794-4 Template output

One Touch. Infinite Trust.

www.imagematch.com.tw

sales@imagematch.com.tw
+886-3-5506818
No. 200, Zhuangjing 5th St. Zhubei City, Hsinchu County 302044, Taiwan

FEATURES Key features

- Remarkable MatriXcan™ fingerprint sensor
- 1 finger registration / verification
- Optimal fit for the thumbprint
- 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 (GF631CM-S)
- IP65, sealed bezel to scanning surface

SPECIFICATIONS Technical specifications

GENERAL

Model name	GF631CM
Image size	400 × 500 pixels
Sensing area	20.32 × 25.4 mm
Platen area	21.84 × 39.47 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 4 / 7.1 / 10.4 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 (GF631CM-S)

PHYSICAL & ENVIRONMENTAL

Device size	51.8 × 39.8 × 15.0 mm
Device weight	24.3 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 30)
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 FABALIS_GF631CM_Datasheet_Redesigned (Sep 2026) · subject to change without notice

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