

BAYOMETRIC

Lumidigm M300

M-SERIES OPTICAL FINGERPRINT MODULE



PRODUCT DESCRIPTION

The Lumidigm M300 from the Mercury series of biometric fingerprint modules is another flagship product that demonstrates the flawless advantages of using biometric security in place of conventional passwords that can be forgotten or stolen. The M300 is a biometric OEM module that can be installed in a number of devices and applications right from access control units to door locks and other systems.

One of the biggest factors for boosting the reliability of Lumidigm M300 is its ability to detect spoof fingerprints. Using multispectral imaging, the module scans the skin surface and deep tissue of the finger and matches them before passing it on to further levels of matching and verification. The module produces accurate results in high speeds that can easily be passed on to any host system by virtue of its RS 232 and USB 2.0 interfacing standards.

Besides being a reliable product, the module also has a compact form factor and a rugged build which makes it suitable for integration into devices. The module is compatible with systems working on 32 bit or 64 bit Windows OS.

APPLICATIONS

Enterprise

Banking

Healthcare

Point of sale (POS)

KEY FEATURES

Fast, accurate and reliable

Durable, compact and field-proven

High-quality images

Multispectral imaging technology

Easy integration

High-performance liveness detection

Enhanced matching

TECHNICAL SPECIFICATIONS

Technology	Patented Lumidigm optical multispectral imaging
Image resolution / bit depth	500 dpi / 8-bit, 256 grayscale
Platen area	17.4 x 13.9 mm (rectangular), uncoated
Image out	ANSI 381 compliant
Template out	ANSI 378 compliant
Score or verification (1:1)	Requires ANSI 378 template input
Identification (1:N)	Uses ANSI 378 templates as input
Latent protection	Included
Verification mode (1:1)	Up to 50,000
Identification mode (1:N)	Up to 1,000 users per group, up to 10 groups
Finger placement to image	1.3 sec. (typical)
Finger placement to template / score	1.8 sec. (typical)
Finger placement to identification	2.0 sec (typical) — 1,000 users
Temperature (operating)	0 to 60°C
Humidity	0–95% RH non-condensing
ESD Immunity	IEC 61000-4-2 Level 4+/-15 kV Air
Ingress protection at platen	IP65
USB 2.0	480 Mbps high-speed

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CONTACT

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Operating systems supported	Windows 8 / 8 Embedded (32/64-bit) Windows 7 / 7 Embedded (32/64-bit), Windows XP / XP Embedded Linux Android
Encryption	n/a
Supply current — operational	+5 VDC 400 mA (peak)
Supply current — idle	+5 VDC 200 mA (typical)
Interoperability	ANSI 378, ISO 19794-2:2005, ANSI 381, ISO 19794-4:2005, NFIQ compliant, MINEX- certified algorithm
Device certifications	CE, FCC Part 15 Class B, EN 60950, IEC 62471, RoHS, Certified support for thin clients
Interface	USB 1.1
Memory	n/a
Operating system	n/a

ABOUT BAYOMETRIC

Bayometric is a leading global provider of biometric security systems offering core fingerprint identification solutions. Our products and solutions help enterprises, government agencies, custom application developers and system integrators meet their security, identification and access management requirements.

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