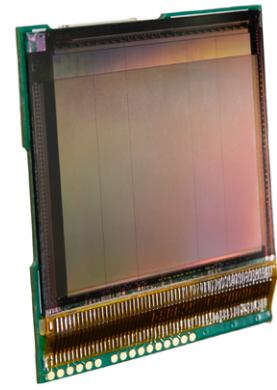




NEXT BIOMETRICS GRANITE SENSOR



The NEXT Biometrics Granite fingerprint sensor is a compact, high-performance FAP30 biometric solution. With optimized accuracy, image resolution, power consumption and seamless integration, NEXT Granite delivers secure, reliable and user-friendly identity verification, in even the most challenging environmental conditions.

Built on the FAP30 size and proven NEXT active thermal® principle, the NEXT Granite sensor offers leading security and performance to support the most demanding use cases:

- Built-in hardware anti-spoofing for cost-effective solutions with leading liveness detection & authentication speed. Reliably rejects latent fingerprint images and resists fake finger attacks.
- Exceptional image quality and 500dpi resolution ensures consistent speed and user experience in varying light and environmental conditions.
- Ultra-thin design minimal energy consumption enables seamless integration into a broad range of devices to support diverse use cases and applications.

NEXT Biometrics offers SDK support with one touch enrollment and 360-degree rotational tolerance. The template generated meet ISO/IEC 19794-2:2011 for easy and seamless integration into a broad range of devices.

DESIGNED FOR INTEGRATION INTO

- Standalone readers
- Terminals & kiosks

SUITABLE FOR APPLICATIONS LIKE

- Government ID (voting systems, border control, immigration).
- Law enforcement
- Healthcare and medical systems
- Banking and finance
- Access control

FEATURES

- Anti-Latent Rejection
- Anti-Spoof & Fake Finger Detection
- ISO/IEC 1974-2 template format
- Complete 360-degree rotational tolerance
- One touch enrollment & verification



PRELIMINARY TECHNICAL SPECIFICATIONS

Product Name	NEXT Biometric Granite Sensor
Module Ordering Number	NB-65310-S
Sensor Technology	NEXT Active Thermal® sensing (patented)
Module size (mm)	34.80 x 31.92
Active sensing area (mm)	25.4 x 20.32 (1.0 x 0.8")
Image size	500 x 400 pixels
Image resolution	500 ppi
Image gray scale levels	256
Image Quality	PIV (PIV-071006)
Logical interface	SPI
Physical interface	12-pin FPC connector
Power supply	TBD 3.3 V
Scan time	< 1 sec for full scan
Scan current	Typical 60 mA
Standby current consumption	200 µA
Scratch resistance	Diamond-like Carbon (DLC) Coating, 9H
ESD protection	±8 kV contact discharge, ±15 kV air discharge per IEC 61000-4-2
Dust/Water resistance	Enables IP67 protection according to IEC 60529
Operating conditions	-20°C to +55°C at 85% RH (non-condensing)
Storage conditions	-30°C to +70°C at 85% RH (non-condensing)



ACTIVE SENSING AREA (mm)

20.32 x 25.4

NEXT Biometrics capture your whole fingerprint