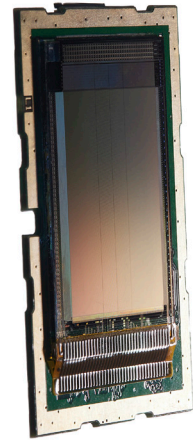




NEXT BIOMETRICS BASALT - U

(aka NB-65200-U)



NEXT Basalt Sensor Series has been specifically designed to meet highest security standards such as Aadhaar, MOSIP and PIV requirements from FBI.

This high-performance FAP 20 sized fingerprint module is built on patented and proven NEXT Active Thermal® technology and is ideally suited for integration into a broad range of applications and devices.

The NEXT Basalt-U Sensor offers:

- Ultra-Slim Size Fingerprint footprint
- Superior Sensor Performance

The NEXT Basalt-U supports secure channel communication to transfer the encrypted fingerprint image to the host. The module meets FBI image quality standards and complies with PIV requirements specified by PIV-071006. Based on its anti-spoofing ability, it reliably rejects latent fingerprint images and prevents fake finger attacks.

The NEXT Basalt-U is perfectly suited for use within the Windows Biometric Framework for fast and reliable Windows Hello authentication out of the box.

NEXT Basalt-U fingerprint sensor offers:

- Excellent image quality, leading performance and excellent user experience.
- UIDAI L1-compliant authentication device controller board featuring a certified Renesas Controller. Each device is assigned a unique identifier, ensuring traceability, analytics, and fraud management.
- High security, certified for L1 applications in the world's largest biometric system, Aadhaar.
- Leading anti-spoofing technologies, reliably rejecting latent fingerprint images and preventing fake finger attacks.
- SDK support with one touch enrollment, 360-degree rotational tolerance and exceptional biometric performance.

DESIGNED FOR INTEGRATION INTO

- Readers & peripherals
- Terminals & kiosks

SUITABLE FOR APPLICATIONS LIKE

- Physical access control
- Network and device security
- Banking, financial systems and mobile operators (eKYC)
- Healthcare and medical information systems



FEATURES

- Enhanced Finger Capture Mode
- Automatic Finger Detection
- Anti-Latent Rejection
- Anti-Spoof & Fake Finger Detection
- AES-256 based application locking and secure communication
- Smart configurable scan mode supporting custom scan size
- LED support for enhanced user experience

NEXT BIOMETRICS SDK FEATURES

- ISO/IEC 19794-2 template format
- Complete rotational tolerance (360 degree)
- < 1% FRR @0.01% FAR
- One touch enrollment
- Supports Windows 11/10/8.1/8/7, Android, Linux

TECHNICAL SPECIFICATIONS

Product Name	NEXT Basalt-U
Module Ordering Number	NB-65200-U
Sensor Technology	NEXT Active Thermal®
Specification	FBI PIV & Mobile ID FAP20
Module size (mm)	27.6 x 39.4 x 3.0
Active sensing area (mm)	15.24 x 20.32
Image size	300 x 400 pixels
Image resolution	500 dpi
Image gray scale levels	256
Image Quality	PIV (PIV-071006)
Logical interface	USB 1.1 Full-Speed, 2.0 Full-Speed
Physical interface	12-pin FPC connector
Power supply	5.0 V
Scan time	0.8 seconds
Scan current	Typical 90 mA
Standby current consumption	400 µA
Scratch resistance	DLC coating providing 20N @ 9H per ASTM D3363-00
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 +60°C at 90% RH (non-condensing)
Storage conditions	-30°C to +70°C at 90% RH (non-condensing)



ACTIVE SENSING AREA (mm)

15.24 x 20.32

NEXT Biometrics capture
your whole fingerprint