

**The NEXT Biometrics
NB-2023-U2-V product**

is a high quality, bezel-less USB fingerprint area sensor module designed for integration into custom application products such as notebooks, tablets, USB peripherals, POS and access control terminals. It relies on the NEXT sensor chipset mounted on a small printed circuit board for seamless hardware integration. The module connects to a USB hub or embedded USB host.

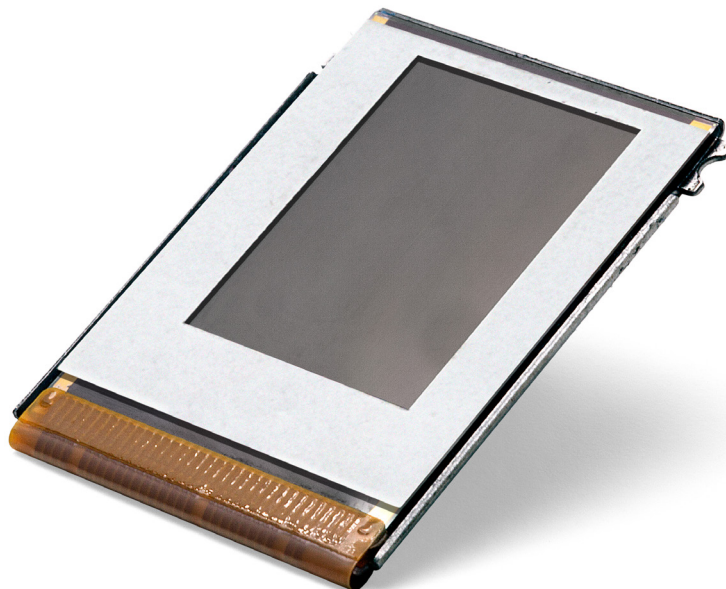
The fingerprint sensor module works with the patented *NEXT Active Thermal™* principle. The sensor technology is tolerant against dirt, grease and varying environmental conditions. The large active area of the NB-2023-U2-V allows stable imaging, intuitive user operation and is ideally suited for mass market applications in need of both security and convenience.

The NEXT technology enables an economical production process and makes a quality sensor available to price sensitive applications without compromising functionality or performance. NEXT Biometrics offers a turnkey biometric subsystem by providing hardware drivers and a complete biometric SDK based on a NEXT-certified partner algorithm for a variety of host platforms.

NB-2023-U2-V is ready for WBF and Windows Hello. USB host drivers are available for Windows, Android and Linux.

APPLICATION EXAMPLES:

- Notebooks
- Tablets
- USB peripheral devices
- POS terminals
- Access control terminals



T E C H N I C A L S P E C I F I C A T I O N S

Sensor technology	<i>NEXT Active Thermal™</i> sensing (patented)
Total dimensions	20.9 x 27.37 x 2.53 mm ³ (including connector)
Active sensing area	11.9 x 16.9 mm ²
Pixels	180 x 256
Optical equivalent resolution	500 ppi (demonstrated by test per PIV specification)
Native Resolution	385 ppi
Gray scale levels	256
Image scan time	0.53 s
Power supply	5.0 V
Scan mode current draw	75 mA (typical)
Standby mode current draw	362 µA (maximum)
Logical interface	USB 2.0 full-speed interface
Physical interface	6-pin FFC connector
ESD protection	±8 kV contact discharge, ±15 kV air discharge per IEC 61000-4-2
Mechanical durability	> 2 million touches @ 2.45 N
UV light resistance	ASTM D-4329-5, cycle A
Ingress protection	Designed to enable IP68 rating in end products
Scratch resistance	Durable lifetime coating, hardness ≥ 9H
Operating conditions	-10 °C to +60 °C at 95% RH (non-condensing)
Storage conditions	-20 °C to +70 °C at 95% RH (non-condensing)
Certifications	CE, FCC, RoHS, and WEEE
Ordering options	USB module with WBF driver license: NB-2023-U2-VANT



www.nextbiometrics.com

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