

**The NEXT Biometrics
NBDK-2023-S2-VAIX-DB**

is a biometrics development kit for Arrow Dragonboard®. It supports image capture, feature extraction and matching.

The development kit includes:

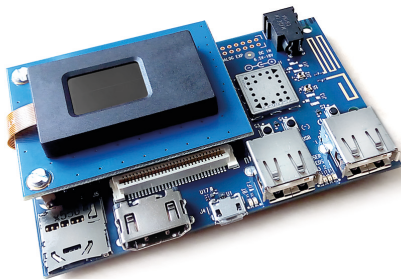
1. NB-2023-S2-VAIX-POD fingerprint sensor module.
2. NBDK-202x-S2 DB-410c shield board for Arrow Dragonboard® 410C.
3. Software Development Kit for Linux and Android.
4. AIX biometric algorithm license (embedded in the NB-2023-S2-VAIX-POD finger module).

The Software Development Kit comprises:

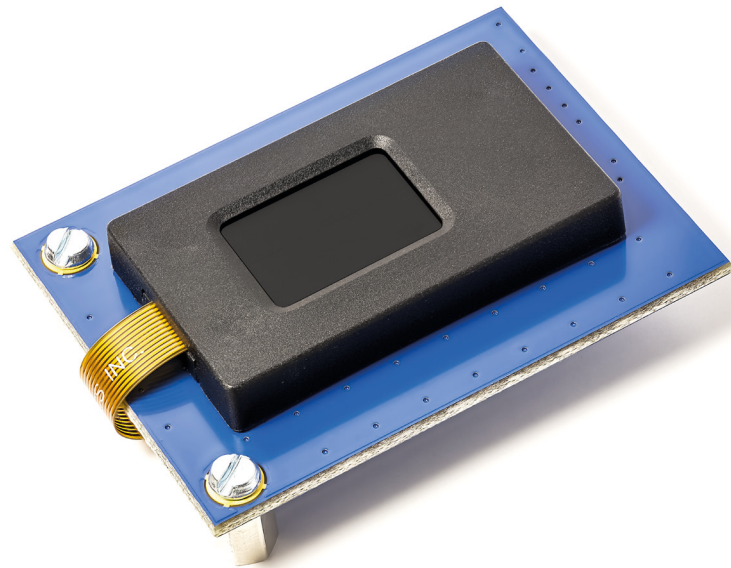
1. NB-2023-S2 SPI sensor drivers for Linux and Android.
2. NB Biometrics AIX API libraries with cutting-edge minutiae based biometric algorithm engine providing fingerprint template extraction and ultra-fast 1: N matching.
3. Demo application for Linux.

The Software Development Kit is accessible post purchase after registering at:

www.nextbiometrics.com/support/registration/



NEXT Shield board mounted on Arrow Dragonboard® (not included).



TECHNICAL SPECIFICATIONS

NB 2023-S2-VAIX Sensor Specifications:

Sensor Technology	NEXT Active Thermal™ sensing (patented)
Active Sensing area	11.9 x 16.9 mm2
Pixels	180 x256
Resolutions	385 ppi (pixel size 66 µm * 66 µm)
Image scan time	0.53s
Ingress protection	Ready for IP68 (note: sample housing in development kit not IP rated)
Fingerprint module interface	SPI
Biometric algorithm license	NBBiometrics AIX SDK License included

NB Biometrics AIX Library Specification:

Fingerprint enrolment (full process from finger detection to capture and extraction)	~970 ms (to be confirmed)
1:1 matching time*	7.5 - 8ms
Biometric performance	False-match-rate 0.01 % (default, configurable) False Non-Match Rate (FNMR):1% (at default FMR)
Maximum Fingerprint Database	1000 templates

Shield board Specifications:

Total dimensions	53 x 40 x 14 mm
Weight	18g
Power Supply	3.3V
Physical interface to fingerprint module	12-pin FFC connector

Ordering Options for the development Kit	Development Kit with Shield board for Arrow Dragonboard® (NBDK-2023-S2-VAIX-DB)
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** Measurement taken on reference DB platform (Qualcomm Snapdragon 410 (APQ8016), 4 x ARM Cortex A53 64-bits, 1.2GHz, 2GB RAM, Linux linaro-aliip 4.9.56).*



www.nextbiometrics.com

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