One Touch Power SDK

One Touch.
One You.
NEXT Biometrics

NEXT Biometrics offers software development kits (SDKs) for its fingerprint modules and readers. The One Touch Power SDK is ideal for customers who are looking for a complete biometric system solution.

The One Touch Power SDK offers functions to extract biometric information from live images captured by NEXT fingerprint sensor modules and readers and the ability to verify (1:1 matching) and identify (1: N matching). The SDK can generate and match fingerprint templates in ISO/IEC 19794-2 format. The combination of NEXT's fingerprint sensor and biometric SDK provide a high performance solution offering ultra-fast matching and low false match and non-match rate.

Customers can gain access to One Touch Power SDK by purchasing one of our development kits and registering for access on the NEXT Biometrics Support Portal (https://www.nextbiometrics.com/support). The modules and readers supported by One Touch Power SDKs are listed in the table below.

SUPPORTED PLATFORMS [1]

Operating System	*Architecture*	*Hardware*	*Requirements*	*Part Number*	*Interface*
Windows	x86, x64	x86 (32-bit) x64 (64-bit)	Windows 7, 8/8.1, 10	NB-2023-U2-VANT NB-2034-S2-XANO NB-3020-U2-LMANT	USB SPI USB
Linux	x86, x64	x86 (32-bit) x86_64 (64-bit)	Linux kernel 2.6 or newer, gcc-4.7 or newer, g++-4.7 or newer (for C++), libusb-1.0.20-1 or newer	NB-2023-U2-VANT NB-2034-S2-XANO NB-3020-U2-LMANT	USB SPI USB
Android	ARMv7-A ARMv8-A	armeabi (ARMv7-A) armeabi-v7a (ARMv7-A) arm64-v8a (ARMv8-A)	Android 5.0 or newer (API level 21)	NB-2023-S2-VANO NB-2023-U2-VANT NB-2034-S2-XANO NB-3020-U2-LMANT	SPI USB SPI USB
Embedded Linux	ARMv7-A ARMv8-A	armhf (ARM hard-float) armel (ARM soft-float) arm64 (ARM aarch64)	Linux kernel 2.6 or newer, gcc-4.7 or newer, g++-4.7 or newer (for C++), libusb-1.0.20-1 or newer	NB-2023-S2-VANO NB-2023-U2-VANT NB-2034-S2-XANO NB-3020-U2-LMANT	SPI USB SPI USB

[1] One Touch Power SDK can be also ported to other architectures. Such porting may be subject to porting fees and may vary depending on the specific platform and complexity. Contact NEXT Biometrics for details.

KEY FEATURES

Template extraction	From live fingerprints
Extraction time	32 ms for proprietary algorithm format 26 ms for ISO/IEC 19794-2 format
Verification and identification	Against live fingerprint or template file
Template format	Proprietary and ISO/IEC 19794-2
Verification time	0.5 ms for proprietary algorithm format 0.2 ms for ISO/IEC 19794-2 format
False-match-rate (FMR)	Configurable (default 0.01%)
False Non-Match Rate (FNMR)	< 1% at FMR=0.01%
Biometrics Algorithm Licensing	License in module

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