



# One Touch Flex CT-150 Module

One Touch.  
**One You.**  
NEXT Biometrics

## One Touch Flex CT-150

The One Touch Flex CT-150 is a flexible biometric module designed to be directly connected to a Secure Element (SE) using either the SPI or I<sup>2</sup>C interfaces and integrated into smart cards. The One Touch Flex CT-150 contains complete biometric and communication functionality, for easy and quick integration with the SE.

One Touch Flex CT-150 relies on the NEXT Biometrics large area flexible fingerprint sensor NB-S610-P2 and NB-A515-S Data Capture ASIC. The module includes a microprocessor to control the fingerprint sensors scan, perform image processing, feature extraction and communication to the Secure Element host. Fingerprint matching is also supported for applications which do not require matching to occur on the Secure Element.

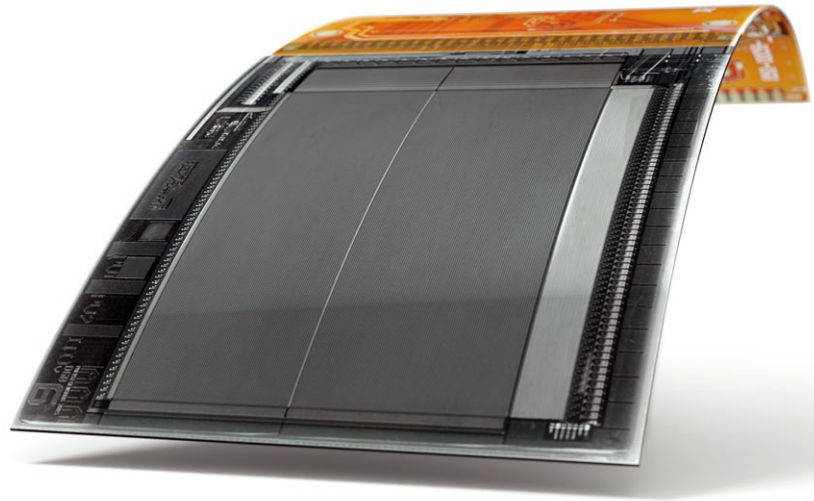
The sensor is based on the patented *NEXT Active Thermal*<sup>™</sup> principle. The One Touch Flex CT-150 is designed for integration into fully flexible, ISO/IEC 7810:2003 ID-1 compliant smart cards. Smart Cards with One Touch Flex CT-150 can sustain dynamic and torsional bending as per ISO/IEC 10373-6:2013.

### Large Area Sensor

A large area sensor captures minutia rich templates enabling low biometric error rates and convenience for the Smart Card user to enroll and use. With an active area of 201mm<sup>2</sup>, the sensor on the One Touch Flex CT-150 modules conveniently exceed the requirement of 169mm<sup>2</sup> specified in ISO/IEC 17839-2:2015 (Biometric System-on-Card: physical characteristics).

The sensor format reliably handles real life complexities like varying finger and environmental conditions. The large area also facilitates correct and consistent finger placement even amongst inexperienced users.

One Touch Flex CT-150 is available for selected customers for high volumes with integration support included.



## TECHNICAL SPECIFICATIONS

Sensor technology	<i>NEXT Active Thermal</i> <sup>™</sup> sensing (patented)
Total dimensions (mm)	19.00 x 54.05 x 0.470
Delivery format	On tray
Active sensing area (mm)	11.9 x 16.9
Pixels	180 x 256
Resolution (ppi)	385 (pixel size 66 μm * 66 μm)
Gray scale levels	256
Biometric error rates	< 1% FRR @ 0.01% FAR
Encryption standard supported	AES-256
Power supply	3.0 V
Scan mode current draw (mA)	34 (typical)
Template output format	ISO/IEC 19794-2
Logical interface	SPI or I <sup>2</sup> C
Physical interface	Pads on flex tab
LEDs on module	Two colors – Green & Red
ESD protection	±4 kV contact discharge, ±6 kV air discharge per IEC 61000-4-2
Scratch resistance	Durable lifetime coating, 6H
Operating conditions	-10 °C to +60 °C at 95% RH (non-condensing)
Storage conditions	-20 °C to +70 °C at 95% RH (non-condensing)
Ordering options	NB-4410-S2 - Module with SPI interface NB-4410-I2 - Module with I2C interface



[www.nextbiometrics.com](http://www.nextbiometrics.com)

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