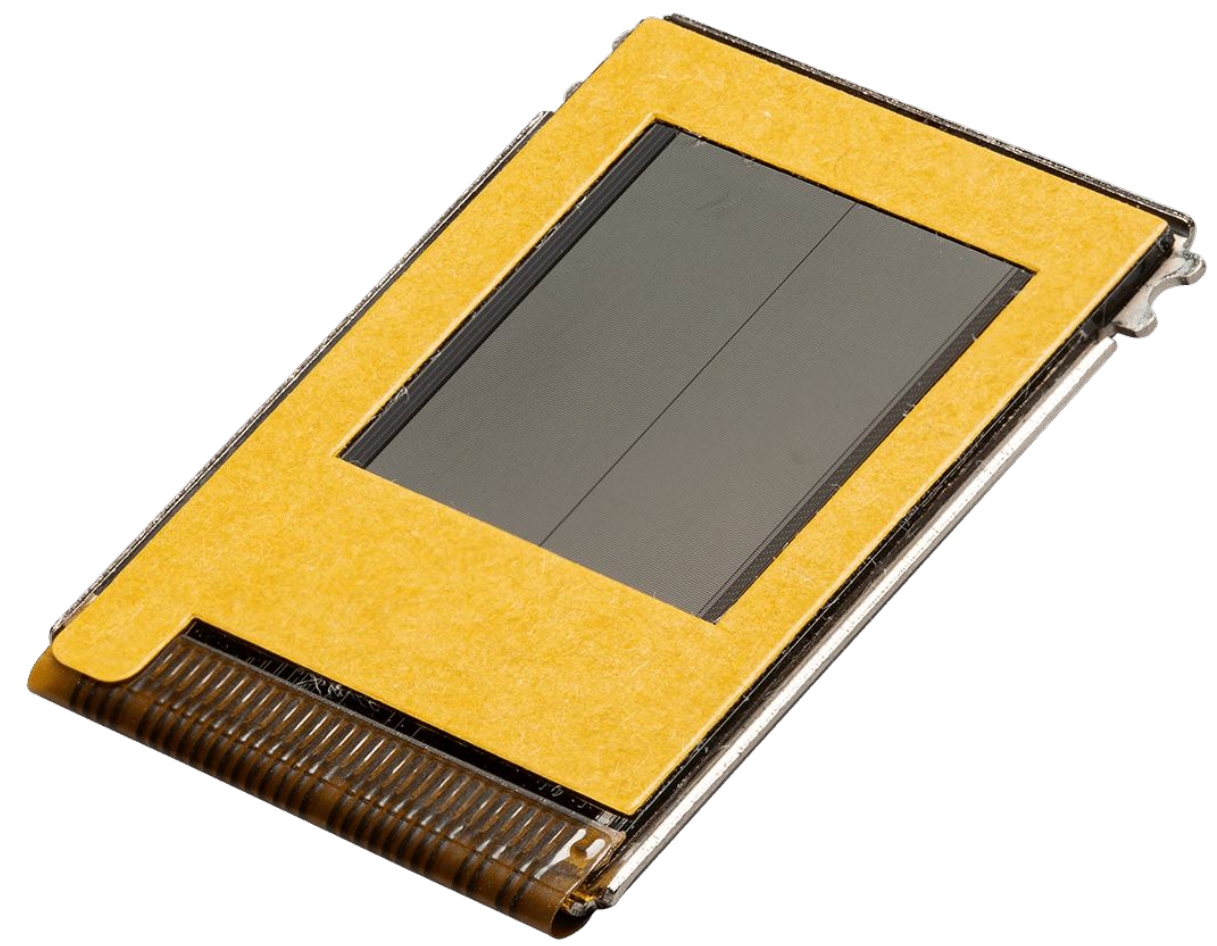




NEXT BIOMETRICS

NB-2034-S2



The NEXT Biometrics NB-2034-S2 is a high quality fingerprint area sensor module designed for integration into custom application products including notebooks, tablets, time and attendance terminals, and card readers.

It relies on the NEXT sensor chipset mounted on a small printed circuit board for seamless hardware integration. The module connects to the host system via a SPI interface using a flex cable.

The 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-2034-S2 allows stable imaging, intuitive user operation and and is ideally suited for mass market applications in need of both security and convenience.

The NEXT technology enables an economical production process that makes quality sensors available to price sensitive applications without compromising functionality or performance.

NEXT Biometrics offers a turnkey biometric subsystem by providing hardware drivers and a NEXT-certified partner algorithm for a variety of host platforms

APPLICATION EXAMPLES

- Notebook
- Tablets

TECHNICAL SPECIFICATIONS

Sensor technology	NEXT Active Thermal® sensing (patented)	Logical interface	SPI 4-18 Mbps
Total dimensions	20.9 × 27.39 × 2.97 mm ³ (including connector)	Physical interface	12-pin FFC connector
Active sensing area	11.9 × 11.9 mm ²	ESD protection	±8 kV contact discharge, ±15 kV air discharge per IEC 61000-4-2
Pixels	180 × 180	Mechanical durability	2 million touches @ 2.45 N
Resolution	385 ppi (pixel size 66 µm * 66 µm)	Scratch resistance	Durable lifetime coating, hardness ≥ 9H
Gray scale levels	256	Operating conditions	-10 °C to +60 °C at 95% RH (non-condensing)
Image scan time	0.43 s	Storage conditions	-20 °C to +70 °C at 95% RH (non-condensing)
Power supply	3.3 V	Certifications	CE, FCC, RoHS, and WEEE
Scan mode current draw	83 mA (typical)		
Standby mode current draw	200 µA (maximum)		

