The NEXT Biometrics NB-2020-S

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 flex cable.

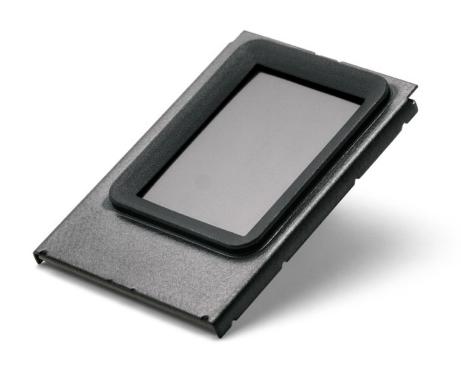
The sensor module works with the patented NEXT Active Thermal™ principle. The sensor technology is tolerant against dirt, grease and varying environmental conditions. The large active area of the NB-2020-S allows stable imaging, intuitive user operation and is ideally suited for mass market applications 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 compromises.

NEXT Biometrics offers a turnkey biometric subsystem by providing hardware drivers and a NEXT certified partner algorithm for a variety of host platforms including Android and Cortex M3 and M4 embedded microcontrollers.

APPLICATION EXAMPLES:

- Notebooks
- Tablets
- Logical Access Control
- Card Readers
- Authentication Tokens
- Remote Controls



TECHNICAL SPECIFICATIONS

| Sensor technology | NEXT Active Thermal™ sensing (patented) |
|----------------------------------|--|
| Total dimensions in mm | 19.9 x 28.52 x 4.18 (including connector) |
| Active sensing area in mm | 11.9 x 16.9 |
| Pixels | 180 x 256 |
| Resolution | 385 ppi (pixel size 66 μm * 66 μm) |
| Gray scale levels | 256 |
| Image scan time | 0.53 s |
| Power supply | 3.3 V |
| Scan current consumption | 90 mA |
| Standby current consumption | 30 μA |
| Logical Interface | SPI 4-8 MBps |
| Physical Interface | 12-pin FFC connector |
| ESD protection | ±8 kV contact discharge , ±15 kV air discharge |
| | according to IEC 61000-4-2 |
| Mechanical durability | 2 million touches @ 2.45N |
| Scratch resistance | durable lifetime coating |
| Operating conditions | -10 °C to $+60$ °C at 95% RH (non condensing) |
| Storage conditions | -20 °C to +70 °C at 95% RH (non condensing) |
| The sensor is designed to enable | CE, FCC, RoHS and WEEE product certifications |
| Sensor module offerings | Black bezel: NB-2020-S2G-BR |
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www.nextbiometrics.com

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