

The new OEM concept for touchless fingerprint recognition – designed for integration into third party devices and systems

NEW BiRD4 OEM

The OEM scanner is suitable for integrations in third party devices and enclosures such as: access control and time attendance terminals, electronic lockers, safe boxes, kiosk systems, ATM's, etc. The BiRD4 OEM allows easy and fast integration due to its mechanical concept and setup. The module provides clear fixation/mounting points and therefore will drastically reduce your integration efforts from an R&D prospective in comparison to other scanners.

The high resolution of the sensor in combination with the contact free image capturing method provides significantly better fingerprint image. The BiRD4 OEM module is the highest among the existing fingerprint modules. The scanner equipped with a 500dpi CMOS camera and two additional and independent measurement principles against anti spoofing - delivering an absolute outstanding increase in regards to security.



The device offers various communication interface possibilities like Ethernet, USB or I2C. Alternatively the device can be connected (RS232) via an embedded module capable to store approx. 2000 templates. USB and ETH communication interfaces are easy to integrate via the TST API, whereas the I2C interface is mostly used for low level communication with the BiRD4 OEM.



Benefits and advantages of „contact free“ fingerprint capturing:

- Dirt, dust or soiling by users have nearly no influence on the quality of the image and the function of the sensor.
- The finger lines are always imaged in unchanged high quality, independent of the condition of the finger, pressure or environmental conditions.
- No latent fingerprint possible – ensures highest security
- Extremely low effort for service and maintenance, very long life cycle
- Contrary to typical fingerprint readers, the TST sensor operates contact free without a contact to the fingertip. This prevents latent fingerprints, eases unmonitored use, and minimizes cleaning and maintenance costs.

Mechanical and Environmental Specifications

Basic functions^(*)	
Enclosure	Water resistant IP54
Dimensions (WxDxH)	66x57x48 mm
Material	Plastic
Visual	Full color LED for status control/customer interaction
Power requirements	5VDC, 500mA
Operating temperature	0C° - 50 C° / -20 C° with heating
Connectivity	See Options
Biometrics	TST touchless technology
Principle	CMOS
Grayscale Quantization	8 bit grey scale (256)
Resolution	Typically 256x360
Size acquired fingerprint surface	16 x19mm
FNMR ^(**) @ T-FMR 0,01%	0,61%
FTE ^(**) - Enroll first time	0.344%
FTE ^(**) - Enroll second time	0.050%
EER ^(**)	<1%
Template size ^(***)	256 - 600 byte
Time to acquire	<1 s
Trigger	Yes
Optional^(*)	
USB Interface	USB 2.0 – 5VDC, 500mA
Embedded Solution	RS 232 MBF - Template storage approx 2000 ^(****)
Algorithm	MBF B-REAL – SPI, UART, CAN, I2C, RS232
Ethernet	10/100 Base-T– 5VDC, 1A
I2C	I2C-BUS – 5VDC, 500mA

^(*) All above provided data's are subject to change

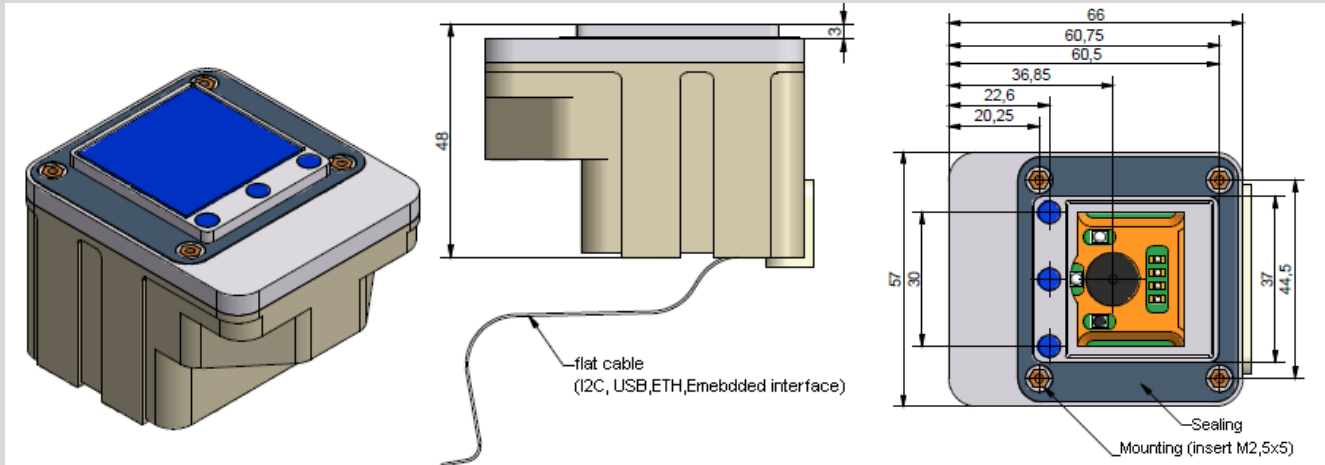
^(**) Influencing conditions:

- System integration and testing
- Environmental conditions
- Service/Maintenance

^(****) Algorithm:

- Size strongly depending on setting and algorithm
- Threshold setting and algorithm
- Template size regulates storage capacity

Mechanical dimensions



BiRD4 OEM and Interface Boards

*Communication Board
USB*



*Communication Board
Ethernet*



*Communication Board
Embedded*





TST Biometrics – The Touchless Company

You don't have to touch things to grasp them



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