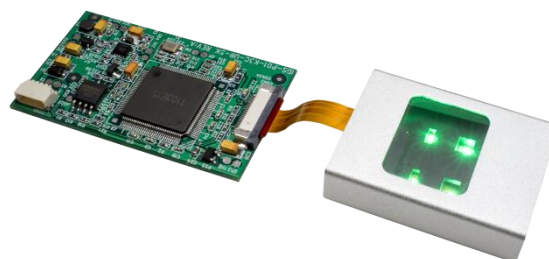


## Saturn 01

### Fingerprint Embedded Module

NeuBio Saturn 01 is a high performance fingerprint embedded module, featuring with 500 dpi high resolution. Saturn 01 is designed with solid scratch free surface and supports up to 5,000 fingerprint templates storage on board. It is credited as the most compact optical fingerprint sensor module and offers with excellent performance, which has made Saturn 01 the best option for many applications on advanced biometrics markets.



#### Features

- The most compact fingerprint optical sensor on the market
- Patented 500 dpi high resolution optical fingerprint sensor module
- Up to 5000 templates storage onboard
- High volume manufacturing design
- SDK features with powerful algorithm to perform the lowest FAR and FRR rate to match on board

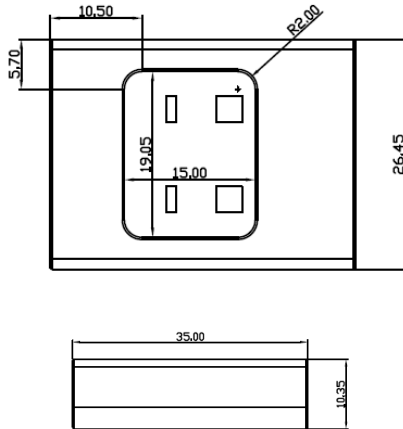
#### Specification

Sensor Type	Optical Sensor
Resolution	500 dpi
Active Sensing Area	14 mm x 18 mm
Template Storage	5,000 templates
Interface	UART
Template Size	1kB
Identification Time	< 1s
Enrollment Time	< 1s
Verification Time	< 1s
Dimension	See mechanical spec on page 2

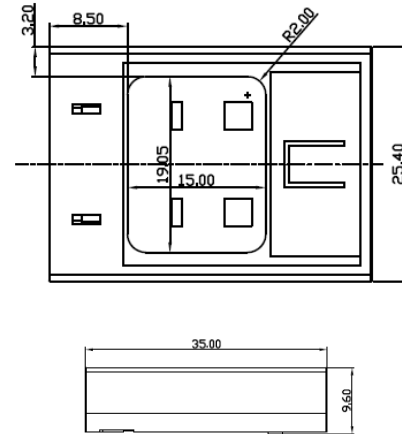
### Mechanical Specification

\*All dimensions are in millimeters.

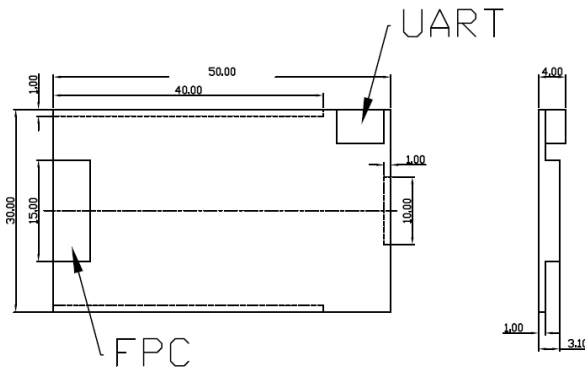
**Figure 1. Sensor front & side view (with metal case)**



**Figure 2. Sensor front & side view (removing metal case)**



**Figure 3. PCBA front & side view**



**Figure 4. Module integration**

This sensor module is designed and supplied with a removable metal case. The mechanical design within the target system (end user products) can choose to integrate with metal case or without it to achieve ingress protection design. However, it is required to ensure an entire Active Area to be exposed and accessible to be touched by fingers.

