

Batteryless Bio Sensor

Skin-patch Sensor

RANiX Skin-patch sensor is a wearable bio-signal sensor that detects bio-signals such as pulse, body temperature and skin humidity when attached to the human skin. It does not need batteries, hence convenient and semi-permanent compared to other wearable sensors. The bio-signals can be measured without skin irritation by using a safe adhesive material that does not affect the skin.



Non-powered NFC

Small and light because no battery is used. Operate by approaching a smartphone that supports NFC. Can be used semi-permanently.



Easy to use

Easy to use anywhere using the app on your smart phone. Biometric information can be extracted just by bringing the smartphone closer to the sensor. Bio-signals can be stored, monitored, and used for telemedicine and various applications through the smartphone app. It can be used for healthcare service through communication with the server.



Safe adhesive material

It can be safely used even by people with sensitive skin and infants by attaching it to the skin using a safe adhesive material that does not irritate human skin.



Flexible PCB

It is composed of a flexible PCB, so it is easy to attach to the human body.



Biosignal measurement algorithm

Algorithm for measuring the pulse rate using pressure change due to compression/tension.



Application product

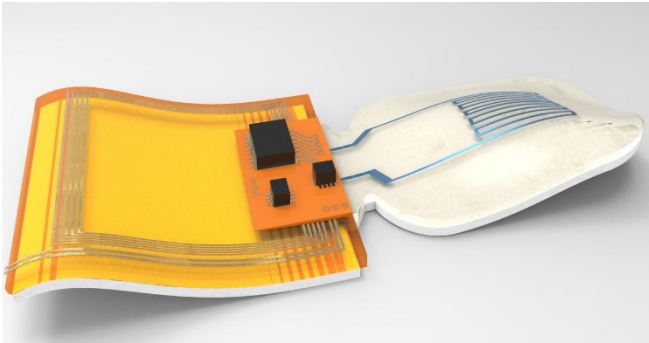
Products for measuring the pulse and body temperature of infants. Used to measure patients' periodic biometric information. For healthcare monitoring of chronic disease patients.

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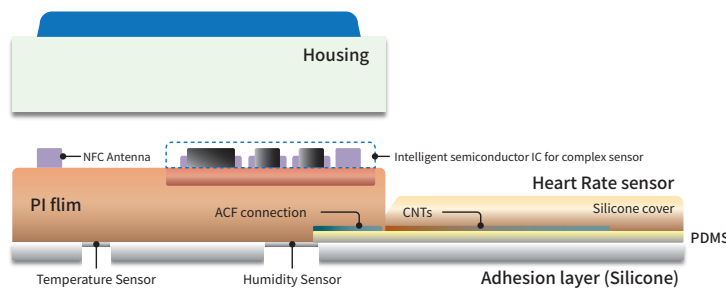


SPECIFICATIONS & FEATURES

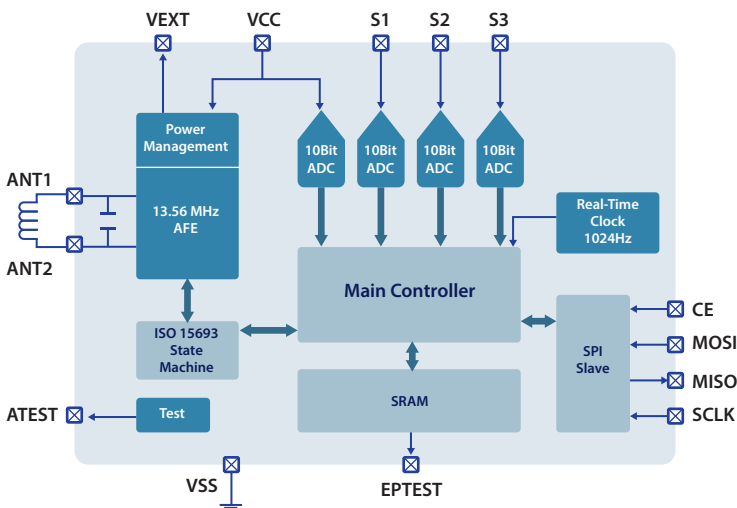
Exterior



Sectional View



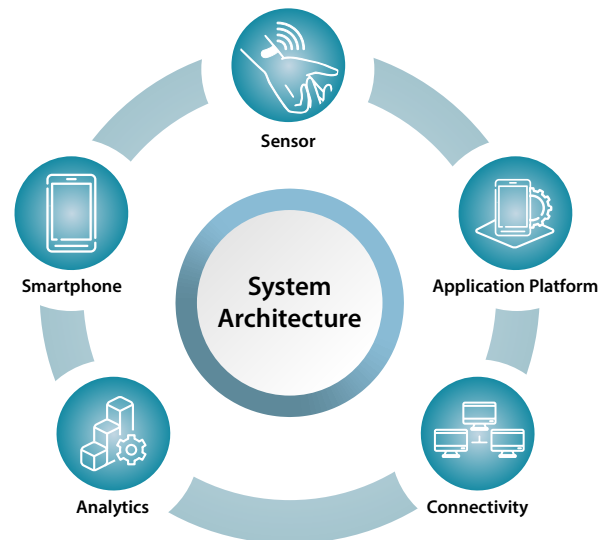
Block Diagram



Features

Feature	value
Body temperature accuracy	±0.3°C
Skin humidity accuracy	±1%RH
Pulse measurement accuracy	±3%
Pressure sensing resolution	0.4kPa
Tensile range	0~45kPa
Current consumption	3mW
NFC communication range	20mm
NFC communication speed	212kbps
NFC protocol	Type3
Operating temperature	-20 ~ 85 °C

Healthcare System Architecture



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