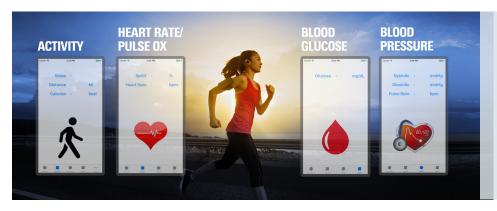
Renesas Healthcare Solutions



Healthcare Meters Kit for Quick Prototyping and Productization





Kit Highlights

- Activity, HRM/SpO2, BGM and BPM modules
- Complete kit to monitor key vitals
- Form factor designed for easy debugging and prototyping
- Mobile access via iOS and Android apps

As part of Renesas' expanding healthcare solutions offering, we developed the Healthcare Meters Kit as a proof of concept – one that enables customers to reduce their time to market. The kit contains four fully functional modules: activity, heart rate/pulse oximeter, blood glucose and blood pressure.

Renesas Healthcare Meters Kit Modules Activity Heart Rate/Pulse Ox Blood Glucose Blood Pressure Activity module is loaded with sensors -Heart Rate/Pulse Ox module uses Blood Glucose module uses an Blood Pressure module uses a ambient light, pressure, humidity, temperature, a finger-based optical sensing electrochemical strip technology cuff, plus pump method, to monitor haptic, and a 9-axis motion, which lends technique to determine the heart to measure blood glucose, which blood pressure, which is displayed itself for implementing a variety of algorithms. rate and pulse ox parameters, which is displayed on the LCD display and on the LCD display and mobile app. Out of the box, the module measures and are displayed on the LCD display mobile app. Coin cell battery powers Standard AA batteries power the displays, using all the sensors, the following and mobile app. Battery charging the module, and touch buttons let module, and touch buttons let you is done through a USB port, parameters on the mobile app: steps, you change settings. change settings. and touch buttons let you switch distance, calories, active time and raw data. Wireless and USB charging capabilities between modes. are provided for flexibility, along with the fuel-gauge function for the battery.







The Healthcare Meters solution kit showcases the Renesas Synergy™ Platform, featuring the Synergy S3 MCU, RL78/G1D MCU, and the USB Charger IC. Renesas Synergy is a complete and qualified platform that accelerates embedded development, inspiring innovation and enabling differentiation. The RL78/G1D is an industry-leading, true low power MCU that features Bluetooth® low energy technology. Renesas also has a portfolio of USB battery charger ICs.

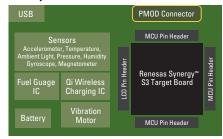
Customers have the option to use Wi-Fi or cellular technology for connectivity instead of the provided Bluetooth low energy technology. The mobile app can be further enhanced by providing back-end connectivity to a cloud platform and building a dashboard in the cloud. These dashboards can be a single point of interaction between the doctor, caregiver/family and patient.



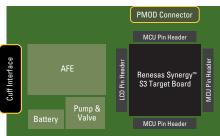
Features

- Wireless charging
- Fuel gauge
- USB charging
- Bluetooth low energy technology
- LCD screen
- Touch buttons
- Sensors on activity module
 - Ambient light
 - Pressure
 - Humidity
 - Temperature
 - Haptic
 - 9-axis motion

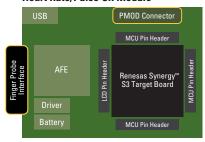
Activity Module



Blood Pressure Module



Heart Rate/Pulse Ox Module



Blood Glucose Module





Bluetooth

For more details on the Healthcare Meters Kit, visit:

https://www.renesas.com/en-us/solutions/home/ healthcare/hckit.html

For more details on RL78G1D, visit:

https://www.renesas.com/en-us/products/microcontrollersmicroprocessors/rl78/rl78g1x/rl78g1d.html

Visit our Healthcare Solutions page at:

https://www.renesas.com/en-us/solutions/home/ healthcare.html

For more information on Renesas Synergy, visit:

https://www.renesas.com/en-us/products/synergy/ features.html

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