

# Shenzhen Risinno Gift Co.,Ltd

## R8 Smart Ring Specification Sheet



|                          | Type                                       | Description                                                        |
|--------------------------|--------------------------------------------|--------------------------------------------------------------------|
| Hardware configurations  | Main control chip                          | NORDIC NRF52832-CIAA                                               |
|                          | Charging Chip                              | SY8602                                                             |
|                          | Acceleration sensor                        | QMA6100P                                                           |
|                          | Battery                                    | 23mAh,3.7/4.2V lithium battery                                     |
|                          | Display screen                             | N/A                                                                |
|                          | Touch panel                                | N/A                                                                |
|                          | Physical key                               | N/A                                                                |
|                          | Encoder Support                            | N/A                                                                |
|                          | Optical PPG Analog Front End (PPG AFE)     | HX3605                                                             |
|                          | ECG Analog Front End (ECG AFE)             | N/A                                                                |
|                          | PPG and ECG 2-in-1 Analog Front End        | N/A                                                                |
|                          | Body temperature sensor                    | N/A                                                                |
|                          | Motor (loanword)                           | N/A                                                                |
|                          | BT Chip                                    | N/A                                                                |
|                          | Inflatable Blood Pressure Measurement Chip | N/A                                                                |
| Function                 | Motion measurement                         | Calories, steps, miles                                             |
|                          | Sleep monitoring                           | 20:00 ~ 8:00 (Auto-expansion to12:00)                              |
|                          | Multi-sport mode                           | Running, cycling, jumping rope, fitness, hiking, yoga, golf, dance |
|                          | Heart Rate Measurement                     | Support                                                            |
|                          | Blood Pressure Measurement                 | Supports photovoltaic                                              |
|                          | Heart Rate Alarm                           | No Supported                                                       |
|                          | Oxygen measurement                         | Support Precision                                                  |
|                          | Blood Glucose Measurement                  | Not supported (electrochemical measurements)                       |
|                          | Body temperature alarm                     | Not supported                                                      |
|                          | Automatic health monitoring                | Support                                                            |
|                          | Activity information data storage          | Support                                                            |
|                          | Historical data retention period           | 7-day rolling save                                                 |
|                          | Low battery power off                      | Support                                                            |
|                          | OTA Upgraded                               | Support                                                            |
|                          | ECG signal                                 | Adaptation to dry skin, waveform quality without noticeable noise  |
|                          | Working time                               | 7days                                                              |
|                          | Standby time                               | 60days                                                             |
|                          | Power off duration                         | 180days                                                            |
|                          | Power Consumption Requirements             | Power off Consumption:≤10uA Standby power consumption: ≤50uA       |
|                          | Power display inaccuracy                   | ≤3%                                                                |
|                          | Charging time (hour)                       | 1 ± 0.5                                                            |
|                          | Mean Time Between Failure (MTBF)           | ≥1year                                                             |
|                          |                                            |                                                                    |
| Environment requirements | Working temperature                        | 0 ~ 45℃                                                            |
|                          | Storage temperature                        | -10 ~ 55℃                                                          |
|                          | Working humidity                           | 5%~95% (non-condensing)                                            |
|                          | Electrostatic protection                   | Static Standard Contact: ± 6KV, Air: ± 10KV                        |
|                          | Surge protection                           | 12V                                                                |
|                          | Drop Requirements                          | Refer to GB/T 2423.8 standard                                      |
|                          | Vibration requirements                     | Refer toGB/T2423.10standard                                        |
|                          | Charging temperature protection            | 45℃                                                                |
|                          | Electromagnetic compatibility (EMC/EMI)    | N/A                                                                |
| Others                   | APP System Requirements                    | Android: 6.0 above<br>iOS: 11.0 above                              |
|                          | Bluetooth version                          | 5.2                                                                |
|                          | Charging Voltage                           | 4.6 ~ 5.2V                                                         |
|                          |                                            |                                                                    |
|                          |                                            |                                                                    |