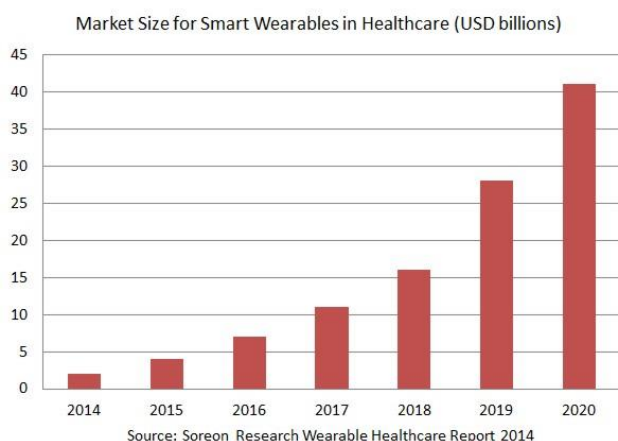


CC-HealthIP_1A - IP set for miniaturized telehealth wearables

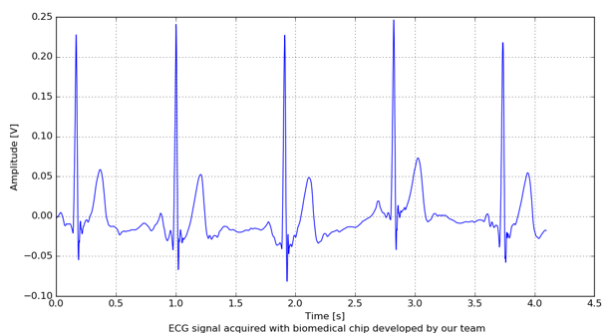
Market Overview

Over last years we can observe continuous growth of the telehealth and the wearables market. The total market size of Smart Wearables in Healthcare is around 5 billion USD in 2015 and will grow to 41 billion USD in 2020 (according to Soreon Research Smart Wearable Healthcare Report 2014). This growth needs many technological innovations and the HealthIP™ can be one of them.



Needs

- Portable health monitoring (telehealth):
 - increased popularity of healthy lifestyle
 - ageing of the population
 - safety in harsh environment
- Wearable health monitoring device:
 - small size
 - low power consumption



Product Overview

HealthIP™ is targeting portable health monitoring (telehealth/telemedicine) and wearable health monitoring devices. The IP set contain analog front-ends' hard macro and synthesizable HDL with optional multicore 32-bit RISC MCU. The whole IP is silicon proven in CMOS 130 nm. Engineering samples available in QFN80 package with development board.

Key Features

- Monitor health parameters (Front-Ends):
 - electrocardiography (ECG)
 - electromyography (EMG)
 - skin temperature and resistance
 - respiration rate
 - oxygen saturation (SpO2)
- Analyze health parameters (32-bit RISC MCU)
- Communicate using digital interfaces:
 - UART, SPI, I2C, CAN, Ethernet

Applications

- Analyze health parameters during sport
- Monitor people working in harsh and demanding conditions or in remote and inaccessible locations, such as: pilots, drivers, firefighters, miners, heavy machinery operators
- Elderly people portable monitoring
- Children and newborns portable monitoring

Deliverables

- Datasheet/Integration Guide
- GDSII database/LVS & SPICE netlist
- HDL Model/Footprint (.LEF)
- IP implementation support, 6 months maintenance (delivery of the IP and documentation up-dates)