

WDK1.0GEVK

Product Brief

Market 1st scalable and flexible reference design and development kit for the wearable with AirFuel compatible wireless charging.

Reference Design Features

- Touch Screen display
- Wired and AirFuel compatible wireless charging capability
- 6-axis Motion Sensor and Temperature Sensor
- SmartApp (Available on Android & iOS) to:
 - Set fitness goals and track daily steps, calories, distance walked
 - Control HW functions in the smartwatch: Motion Sensor (ON/OFF), Haptic Feedback (ON/OFF), Clock Face (Digital/Analog), 8 level LCD brightness control,
 - Alerts transmitted to the smartwatch from the smart phone (call, SMS, alarm, file download, fitness goal)
- Alarm, Timer, Stopwatch
- HW schematics
- Firmware SW Code and sample codes
- Dock Station for Charging and SW and HW development
- Accessories

SW Development Features

- Eclipse based Integrated Development Environment (IDE) for ARM Cores
- The IDE allows development code for:
 - Nordic nRF52832 in the smartwatch
 - Nordic nRF52832 in the dock
- Optional ARM core processor in the expansion card
- Firmware code and sample codes
- Full access to control of the MEMs motion sensor



HW Development Features

- Scalability of additional components with 26-pin port which allows connection to expansion card. The port includes access to:
 - 5-GPIOs from smartwatch nRF52832
 - Programmable (1.2V, 1.8V, 2.8V) from smartwatch PMIC
 - 5.0V and 3.3V from USB and the dock
 - Probing and access to the Nordic nRF52832
 - Additional SW lines to program ARM core MCU
- Additional external button that can be programmed by the developer for other functionality
- Cadence design files

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