

Are You ...

Are You A Smartphone App Developer
looking for an easy a way to...

Or An End-Product Designer
looking for a simple way to...



Incorporate data or signals from external sensors, switches or data-collection nodes?

Add cool context-aware features to your next app?

Connect HMI peripherals without tying up the USB/Lightning port?

Monitor or control sensors or switches with a phone?

Display sensor, switch or data-collection status?

Upload sensor or switch signals or data to the cloud?

Control or update your product from a smartphone?

New NXP Smartphone Quick-Jack Solution

- ▶ **Makes it easy to connect external devices to smartphones for self-powered data communications**

- Repurposes standard 3.5-mm audio jack for self-powered data communications
- Standard expansion header for connecting external sensors, switches, and more



- ▶ **Gives smartphone app developers** an easy way to add context-aware app features, input user or environment data, or connect peripherals



- ▶ **Gives end-product designers** instant access to smartphones' convenience, appealing UI, and cloud connectivity

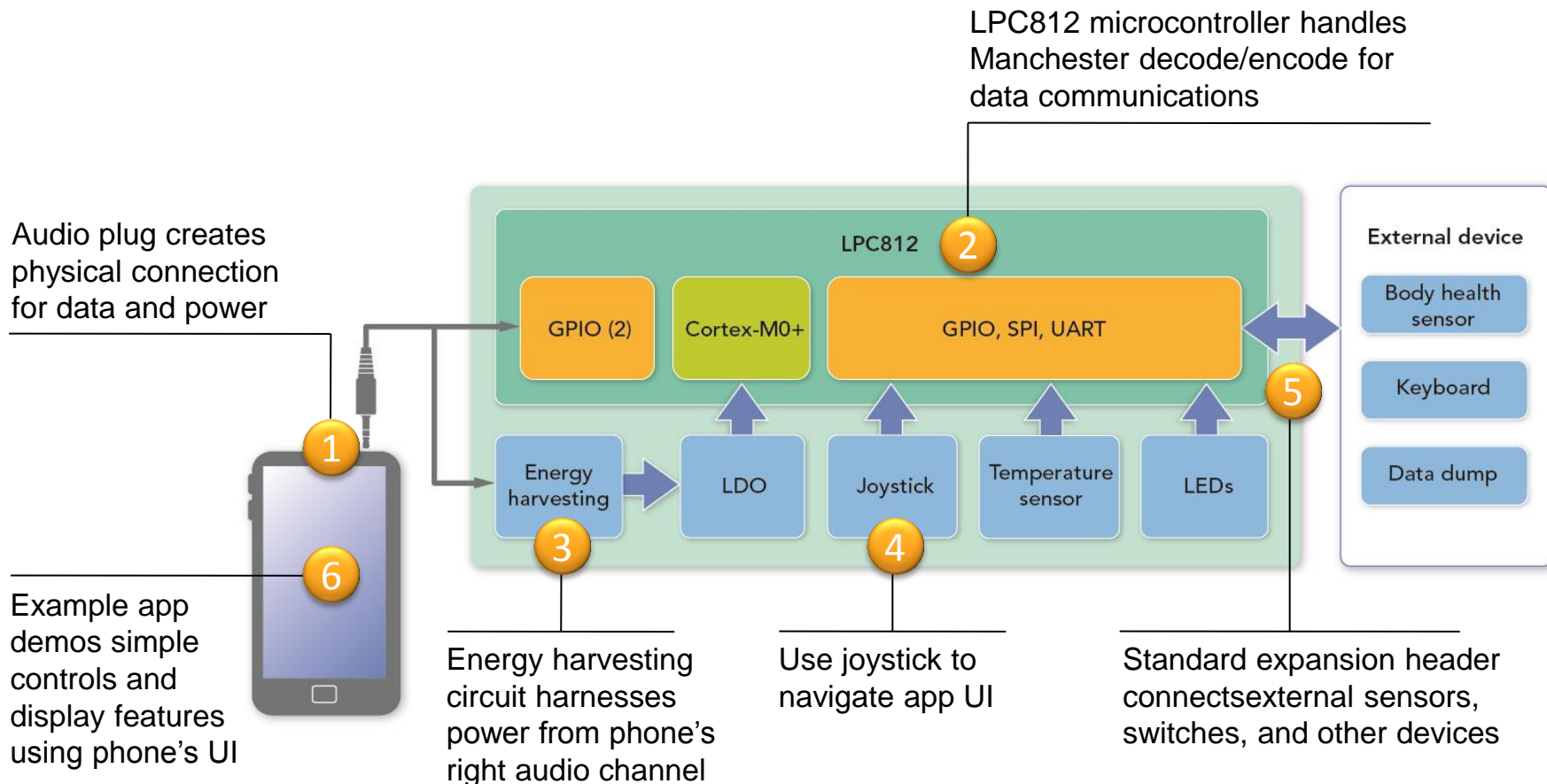
- ▶ **Unmatched simplicity** for endless applications

- Self-powered board
- Launch the app, plug in the board... and go
- Same UI for iOS and Android smartphones



NXP Smartphone Quick-Jack Solution

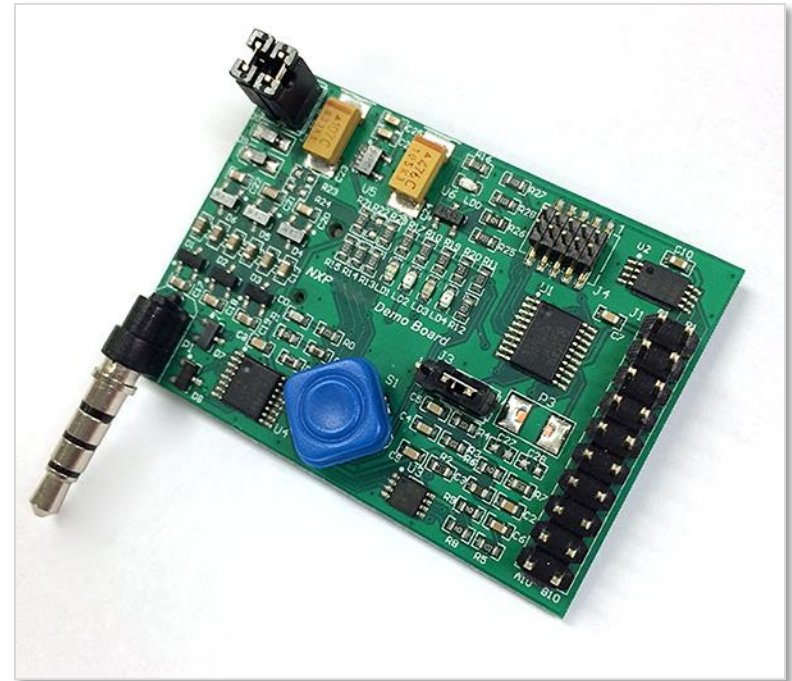
How Does it Work?



NXP Smartphone Quick-Jack Solution

Typical Applications (Just a Few)

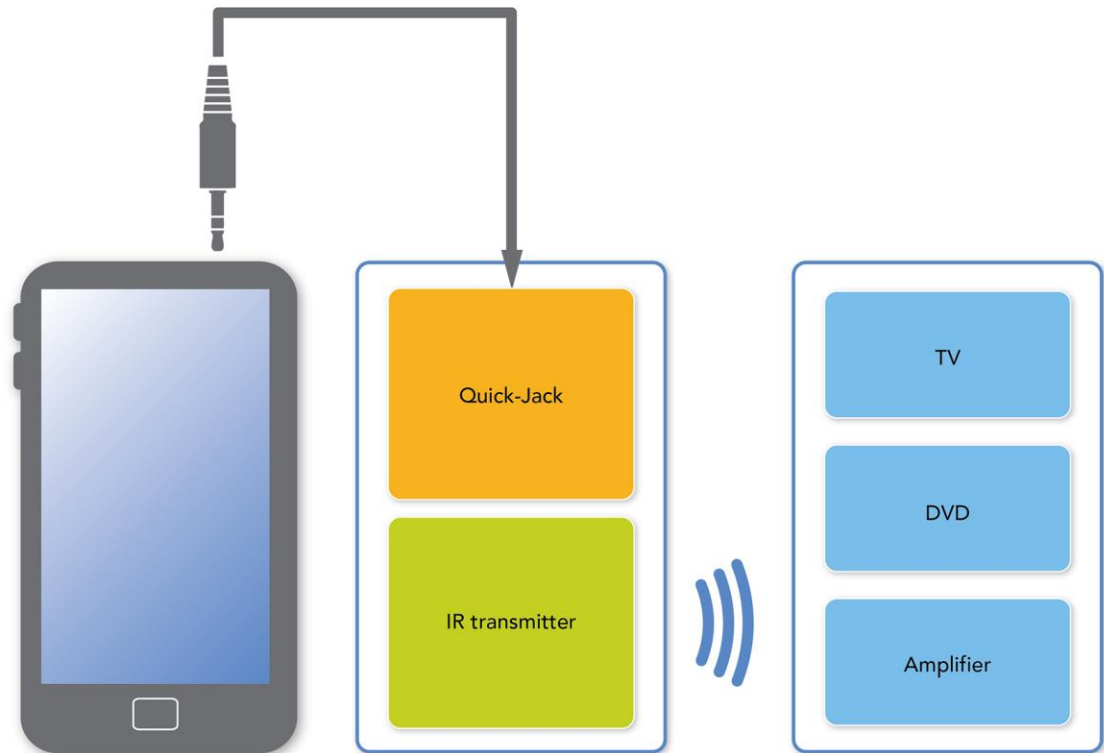
- ▶ **Wearables, medical, fitness:** personal bio/health meters, patient monitoring, personal fitness devices
- ▶ **Gaming, toys, recreation:** input devices such as keyboards, mice, remote controls, wands, joysticks, etc.
- ▶ **Industrial:** measure, meter, monitor or control environmental conditions/status
- ▶ **Consumer:** control or monitor switches, sensors, status
- ▶ **Data logger:** upload data from field monitoring/collection devices



Use Case

Universal Remote Control

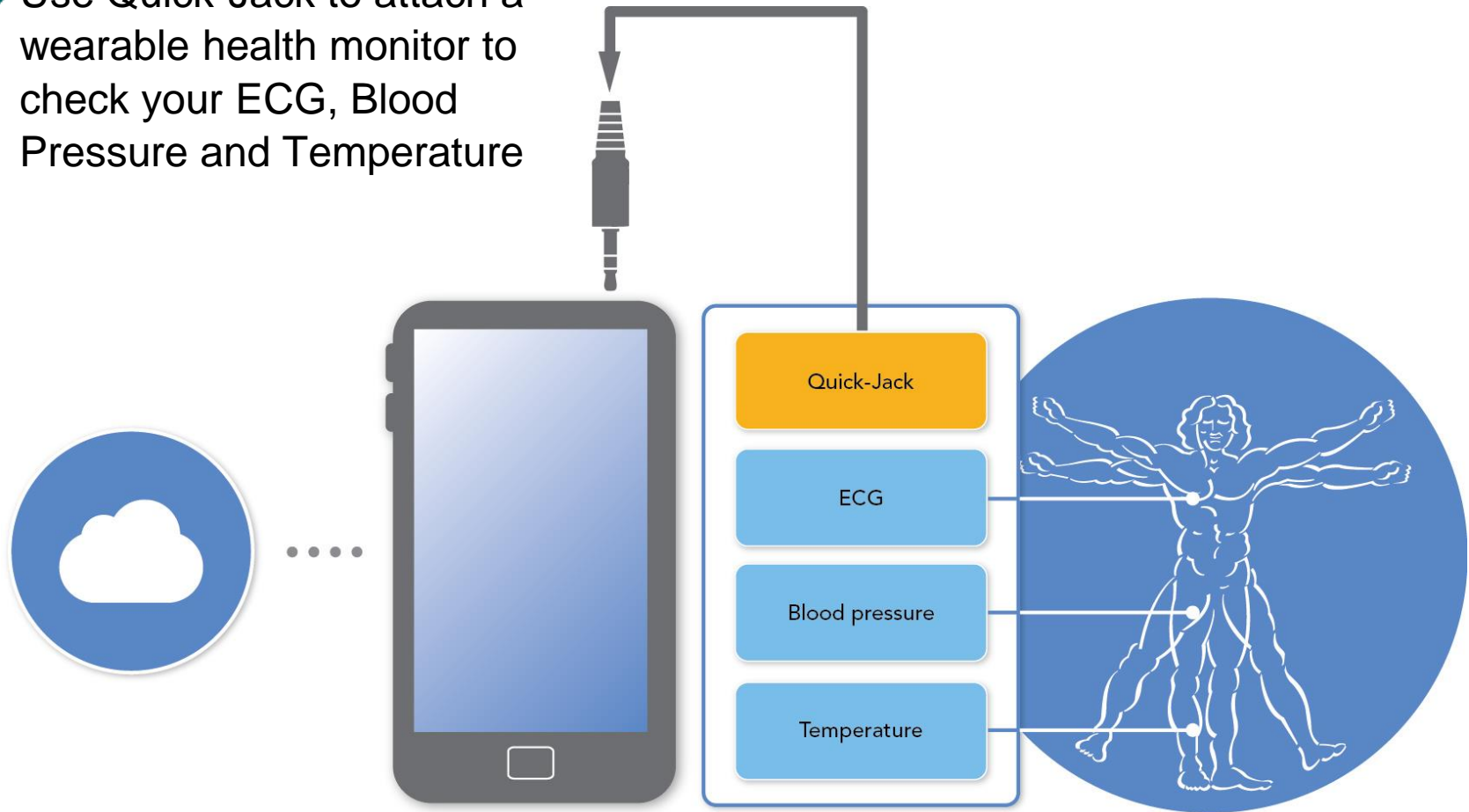
- ▶ Use Quick-Jack to connect an IR transmitter and turn a smartphone into an universal remote control



Use Case

Wearable Health Monitor

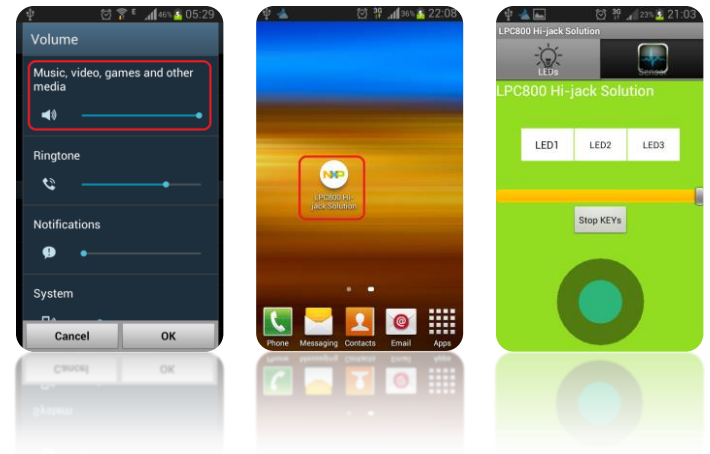
- ▶ Use Quick-Jack to attach a wearable health monitor to check your ECG, Blood Pressure and Temperature



NXP Smartphone Quick-Jack Solution

Includes Everything Needed to Get Started

- ▶ **LPC812 demo board & schematics**
- ▶ **Free Quick-Jack example app***
 - Demonstrates simple smartphone UI functions
 - Chart temperature using onboard temperature sensor
 - Use joystick to control app UI
 - Turn on-board LEDs on/off
 - Source code available (LPCWare)
 - Available free
 - iPhone/iOS: download from Apple App Store
 - Android OS: download from Google Play Store
 - Android APK available



▶ Quick Start Guide

Ordering & More Information

	INCLUDES/COMPRISES	Links
Smartphone Quick-Jack Solution	Quick-Jack board & documentation	Board: OM13069 http://www.nxp.com/demoboard/OM13069.html
	iOS app (free)	Install the following app from the apple store "NXP Quick-Jack"
	iOS source code	Contact NXP customer support
	Android app (free)	Download it from: http://www.lpcware.com/content/project/smartphone-quick-jack-solution
	Android source code	Download it from: http://www.lpcware.com/content/project/smartphone-quick-jack-solution
LPC812 Microcontroller	MCU information	http://www.nxp.com/products/microcontrollers/cortex_m0_m0/lpc800/series/LPC81X.html