General Accessory Development Kits for iPhone®, iPod® and Android™ Devices

Summary

New accessories are emerging in sports/fitness, wellness, financial transactions markets. Microchip's accessory development kits make it easy to development your accessory products with fast time-to-market!

Key Highlights of Microchip's Accessory Development Kits

- Universal iPhone and Android firmware library
- Latest Apple iAP-2/-1 and Android specs
- Auto-detect/connect for Apple and Android OS
- UART, USB, Bluetooth® and Bluetooth LE connectivity
- Firmware update or bootloader *via* USB or an application
- 8, 16, 32-bit PIC® MCU with XLP technology

General Purpose Accessory Development Kits

8-bit PIC MCU Accessory Development Kit
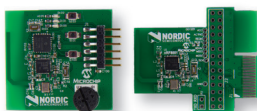
- 8-bit PIC MCU Plug-in Module
- User interface switches and buttons
- Prototyping area
- Expansion capability with Microchip's PICtail™ connector

16-/32-bit PIC MCU Accessory Development Kit

- 16-/32-bit PIC MCU Plug-in Module
- User interface switches and buttons
- Power and charger circuitry
- Expansion capability with Microchip's PICtail Plus connector

Bluetooth LE Development Kit (TBD)

- Complete RF, PHY, Link & Host for peripheral device layers
- Coin cell battery development board

- Bluetooth LE v4.0 compliance
- Lowest power solution with XLP PIC MCU and Nordic nRF8001

16-bit PIC MCU Accessory Development Kit for Android (DM240415)

- 16-bit PIC MCU
- User interface switches and buttons, potentiometer
- Status LEDs
- Power and charger circuitry

How Do I Start?

- Schedule a demonstration with your Microchip Sales Representative
- Enroll in Apple's Made-for-iPod (MFi) licensing program
- Download the free Microchip MFi Library from Apple's authorized MFi component distributor
- Purchase development kit(s) at Apple's authorized MFi component distributor
- Contact applesupport@microchip.com for additional questions

For information about Microchip's solutions for Bluetooth and USB audio docking for iPod, iPhone and Android devices, see the related sell sheet (DS00001400) or visit www.microchip.com/smartphone.

MICROCHIP®

Accessory Development Kit Portfolio

Products	Where to Buy
8-bit PIC® MCU Accessory Development Kit	Apple's Authorized MFi Component Distributor
16/32-bit PIC MCU Accessory Development Kit	
Bluetooth® LE Development Kit (TBD)	Microchip Channel Partner(s) or microchipDIRECT
16-bit PIC MCU Accessory Development Kit for Andriod (DM240415)	

nanoWatt XLP eXtreme Low Power PIC MCUs Are Ideal for iPod and iPhone, and Android Accessories

Many accessories require battery power, making energy conservation paramount. To enable these applications, products with Microchip's nanoWatt XLP technology offer the industry's lowest currents for Run and Sleep.

Benefits of nanoWatt XLP technology include:

- Sleep current below 20 nA
- Brown-out Reset down to 45 nA
- Watch-dog Timer down to 220 nA
- Real-time Clock/Calendar down to 470 nA
- Run currents down to 35 µA/MHz
- Full analog and self-write capability down to 1.8V

Additional information, visit: www.microchip.com/xlp.

Low Power Analog Portfolio

Microchip offers a broad portfolio of low power analog products that support a wide variety of applications. With over 700 unique stand-alone analog products covering power management, battery management, mixed-signal, linear, interface, security and etc...

Low IQ Operational Amplifiers

- Up to 60 MHz gain bandwidth product
- Quiescent current as low as 450 nA per channel
- Operating voltage down to 1.4V
- Small SOT-23 and SC-70 packaging

Low Dropout Voltage Regulators

- Quiescent current as low as 1.6 µA
- Output voltage as low as 0.8V
- Output current from 50 mA to 1.5A

Switching Voltage Regulators

- Boost regulators with 0.65V start-up voltage
- 4V to 30V input Buck Regulators
- Up to 96% efficiency

Battery Management

- Li-ion/Li-polymer linear chargers
- Up to 1.1A charging current
- 1-/2-cell, OVP and load sharing solutions

Additional information, visit: www.microchip.com/analog.

www.microchip.com/smartphone

Visit our web site for additional product information and to locate your local sales office.

Microchip Technology Inc. • 2355 W. Chandler Blvd. • Chandler, AZ 85224-6199

Microcontrollers • Digital Signal Controllers • Analog • Memory • Wireless