



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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BodyCom™ Technology

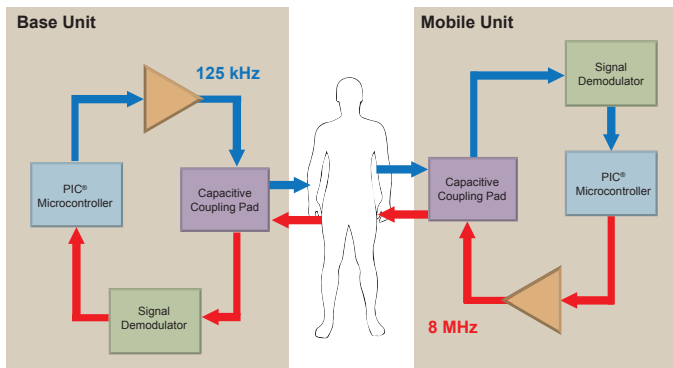
Summary

Microchip's BodyCom Technology is a short-range, low-data-rate communication solution for securely connecting to a wide range of wireless applications.

Compared to other existing wireless technologies BodyCom Technology offers lower active and standby energy usage, increases security through bidirectional authentication, provides a secure communication channel using the human body and allows for simpler circuit-level designs.

How Does BodyCom Technology Work?

Activated by capacitively coupling to the human body, the system communicates bidirectionally between a centralized controller and one or more wireless mobile units. Intra-body communication takes place using the human body as the transmission medium.



Applications

- Access control
 - Passive Keyless Entry (PKE)
 - Security systems
 - Home/industrial door locks
 - Pet doors
- Personal safety & security
 - Equipment access/disable
 - Power Tools
 - Firearms
 - Computer systems
- Medical
 - Patient monitoring
 - Hospital room access
 - Equipment tracking
- Consumer
 - Profile Management for gaming consoles
 - Exercise equipment



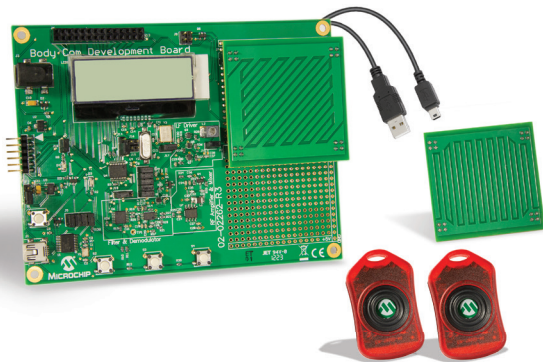
Benefits

- Simpler implementation
 - No RF antenna design necessary
 - Low-frequency design using common microcontroller and AFE frequencies (125 kHz/8 MHz), no external crystals needed
 - Complies with FCC Part 15-B, Radiated Emissions
 - Lower overall BOM, compared to existing technologies
- Lower power consumption
 - No wireless transceiver required for two-way communication
 - Not using high-power inductive fields
- More secure communication channel
 - Provides bidirectional authentication through the human body
 - Prevents the "Relay Attack" problem typical in PKE solutions
- Supports advanced encryption solutions
 - Such as KEELoQ® Technology with AES-128



MICROCHIP

Development Support



BodyCom™ Development Kit
(Part # DM160213)

- **Free** BodyCom Technology Development V1.0 Framework supplied via *free* software libraries for all PIC® MCUs
 - BodyCom Technology communication library
 - Application code examples
 - PC development GUI
- BodyCom Technology Development Kit (DM160213)
 - Central controller unit + two wireless mobile units

Applications Notes and Data Sheets

- AN1391: *Introduction to the BodyCom Technology*
- DS41391: *PIC16F/LF1826/27, 18/20/28-Pin Flash Microcontrollers with nanoWatt XLP Technology*
- DS22304: *MCP2035 Analog Front-End Device for BodyCom Technology Applications*



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www.microchip.com/bodycom

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

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