BROADCOM®
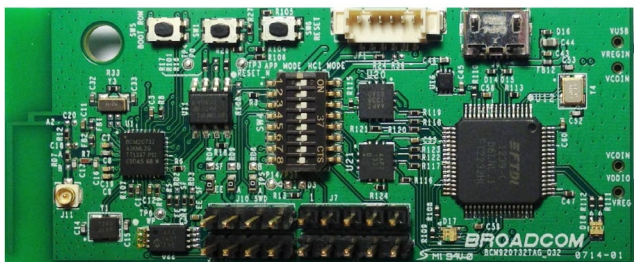
Connecting
e v e r y t h i n g ®

WICED™ SMART
(Embedded Bluetooth Low Energy)

WICED SMART is a very low-power family of pin-compatible modules that, when paired with the included Software Development Kit (SDK), vastly reduce the effort required to add "Bluetooth Smart" wireless connectivity and cable replacement capabilities to a range of embedded applications.

- Pin Compatible Family: BCM20732, BCM20736 (Wireless Charging), and BCM20737 (NFC/RSA).
- BCM92073X_LE_KIT: A complete evaluation and development kit that includes the BCM20737, a fully integrated Bluetooth SMART SoC, and is configured for easy evaluation and software development.
- BCM20732S/BCM20736S/BCM20737S: A production module providing cable replacement functionality via an integrated Bluetooth Smart solution that includes onboard stack, crystal, antenna, and regulatory approvals.

WICED SMART Software Development Kit:

Broadcom provides a WICED SMART Software Development Kit (SDK) and is aligned with partners to deliver turnkey hardware solutions to enable Bluetooth Smart connectivity. Broadcom's WICED SMART Development Kit eases development effort and simplifies the implementation of wireless connectivity in an array of consumer, medical, fitness, and home automation devices - especially those without existing networking support.

BCM20737 mounted on a BCM92073X_LE_KIT full-featured WICED SMART™ development board.

Developers use the WICED SMART Development Kit to create secure Bluetooth SMART wireless applications. The development kit consists of the following:

- WICED SMART BCM92073X_LE_KIT small form factor development board (with coin cell holder)
- Software Development Kit (SDK)
- A full suite of documentation (Data Sheet, Hardware User's Guide, Quick Start Guide, etc.)
- Integrated Eclipse-based IDE allowing access to peripherals, timers, stack, and profiles
- Support for ARM RealView RVDS and CodeSourcery G++ Lite toolchains
- Linux, OSX, and Windows development support
- Sample profiles included in ROM: proximity, heart rate monitor, health thermometer, wireless charging, time, and blood pressure monitor

WICED™ SmartBridge

A multiple-connection Bluetooth SmartBridge with the following features: Whitelist, Bond Storage, Attribute Caching, GATT Procedures, Configurable Maximum Concurrent Connections, Directed Advertisements, and Device Address Initialization for seamless bridging between Wi-Fi and Bluetooth Low Energy products.

WICED SMART can be implemented in the following applications:

- Medical:
  - Blood pressure monitor
  - Glucose monitor/ dispenser
  - Prescription reminder
- Wearables:
  - Watches
  - Pedometers
  - Fitness bands
- Aftermarket Automotive

- Industrial:
  - Equipment monitoring
  - Lighting control
- Home automation:
  - Thermostat and lighting control
  - Home security
- Toys
- Proximity/Tracking

Support for these products is available within the Broadcom Support Community forums at:
http://community.broadcom.com/welcome

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