

BCM20736E

Status: In Production

Pricing & Inventory Availability Packaging/Ordering
 Quality and RoHS Technical Documents

- DESIGN SUPPORT**
- Development Kits
 - Forums
 - Knowledge Base
 - Packaging
 - Product Brochures
 - Quality & Reliability
 - Samples
 - Technical Support
 - Technical Training
 - Third Party Network (CYPros)

- TRAINING**
- Workshops
 - Training On-Demand
 - Webinars

BCM20736E	
Automotive Grade	No
Bluetooth Specification	Bluetooth 4.1
CPU Core	ARM Cortex M3
Cypress Module Area (mm)	6.5 x 6.5 x 1.2
Dedicated ADC (Max. Resolution @ Sampling Rate)	10-bit @ 187 KHz (Static) 13-bit @ 5.8 KHz (Audio)
Device Type	Module
Interfaces	2 UART, 2 SPI, I2C
Max. Operating Frequency (MHz)	24
Max. Operating Temp. (°C)	85
Max. Operating Voltage (V)	3.60
Min. Operating Temp. (°C)	-30
Min. Operating Voltage (V)	1.40
Module Features	Integrated 24 MHz crystal, FCC and CE compliant, Ext. antenna required
No. of Dedicated Timer/Counter/PWM Blocks	4
No. of GPIOs	14
Partner Modules Available	N
Power-Class	Class 2, Class 3
Product Family	BCM20736
RAM (KB)	60
Silicon Features	Infrared TX/RX, Wireless Charging (A4WP), LE Audio
Software Support	WICED
Wireless Technology	Bluetooth Low Energy

PRICING & INVENTORY AVAILABILITY					
1-9 unit Price*	10-24 unit Price*	25-99 unit Price*	100-249 unit Price*	250-999 unit Price*	1000+ unit Price*
Contact Sales					

Availability	Quantity	Ships In	Order Now
Out of Stock	0	Please click here to check lead times	Check Distributors**

* Prices are shown in United States dollars and are for budgetary use only for volume of 1ku

** Check Distributors: This part is sold through distributors only.

PACKAGING/ORDERING	
No. of Pins	48
Package Cross Section Drawing	Download
Package Carrier	TRAY
Package Carrier Drawing / Orientation	Package Orientation
Standard Pack Quantity	1820
Minimum Order Quantity (MOQ)	260
Order Increment	260
HTS Code	8542.31.0000
ECCN	None
ECCN Suball	5A992C

QUALITY AND ROHS	
Moisture Sensitivity Level (MSL)	3
Peak Reflow Temp. (°C)	260 (Cypress Reflow Profile)
RoHS Compliant	Y
Y Print RoHS Certificate of Compliance	
PB Free	Y
Lead/Ball Finish	Ni/Au
Marking	Cypress Marking Format

TECHNICAL DOCUMENTS	
Application Notes (38)	
BCM20733, BCM20734 - RSSI Measurement Setup Jl1 05, 2016 BCM20734 - Over the air throughput classic test setup Jl1 05, 2016 BCM20738 - How to Make an LE Connection Using BlueTool Jl1 05, 2016 BCM20730 - Transmit and Receive Testing with BlueTool Jl1 05, 2016 BCM920732HW - WICED Smart Hardware Interfaces Jl1 05, 2016 BCM20732/BCM20736/BCM20737 - BCM2073XS Planar Inverted-F Antenna (PIFA) Guidelines Jl1 05, 2016 BCM20734/BCM20735 - Over-the-Air (OTA) Firmware Update Procedure For Bluetooth Low Energy (BLE) Devices Jl1 05, 2016 BCM20730/BCM20733 HID OTA firmware upgrade - Upgrading Human Interface Device Firmware (Example Protocol, Commands, and Scripts) Jl1 05, 2016 BCM20738 - Low-Energy Bluetooth RF Testing Using BlueTool Jl1 05, 2016 BCM20733 - Over-The-Air Throughput Test Setup Using Broadcom® BlueTool Software Jl1 05, 2016 BCM20733 - Downloading Firmware to BCM20733 Modules Using BlueTool Jl1 05, 2016 BCM20734 - Failsafe LE Audio App Note Jl1 05, 2016 BCM20734 - Failsafe OTA App Note for br-edr Jl1 05, 2016 BCM20734 - Establishing Bluetooth Low Energy (BLE) Connections and Conducting Throughput Testing using BlueTool Jl1 05, 2016 BCM20734 - Low-Energy Bluetooth RF Testing Using BlueTool Jl1 05, 2016 BCM20734 - Transmit and Receive Testing Using the BlueTool Utility Jl1 05, 2016 BCM20734 - Bluetooth Qualification Body Radio Frequency Test Setup Jl1 05, 2016 BCM20732 - Downloading Firmware to BCM20732 Modules Using BlueTool Jl1 04, 2016 BCM20730/BCM20733 HID OTA firmware upgrade - Upgrading Human Interface Device Firmware (Example Protocol, Commands, and Scripts) Jl1 04, 2016 BCM20730/BCM20733 EEPROM format for OTA - EEPROM Format Information and Firmware Upgrading Jl1 04, 2016 BCM20730/BCM20733 IR application notes - IR Transmission Support Jl1 04, 2016 BCM20730/BCM20733 - Keyscan Matrix Jl1 04, 2016 BCM20705 - Headless Mode and Power Conservation for Bluetooth Device and Host Jl1 04, 2016 BCM20730 - Over-The-Air Remote Loopback Throughput Testing Using Broadcom® BlueTool Software Jl1 04, 2016 BCM20730 - Downloading Firmware to BCM20730 Modules Using BlueTool Jl1 04, 2016 BCM20715 - PCB Layout Guidelines Jl1 04, 2016 BCM20710 - PCB Layout Guidelines Jl1 04, 2016 BCM20710A1 - Class 1 Bluetooth Transmitter Load-Pull Measurements Jl1 04, 2016 Coex mapping - BCM20710 2-Wire, 3-Wire, and 4-Wire Coexistence Jl1 04, 2016 BCM20710 - WLPGA SECI Mapping Jl1 04, 2016 BCM2070X - Bluetooth Manufacturing Test Tool for WICED Devices Jl1 04, 2016 BCM20704 - Establishing Bluetooth Low Energy (BLE) Connections and Conducting Throughput Testing using BlueTool Jl1 04, 2016 BCM20704 - Over-The-Air Throughput Test Setup Using Broadcom® BlueTool Software Jl1 04, 2016 BCM20704 - Enabling the BCM20704 for Transmit and Receive Testing Jl1 04, 2016 BCM20704 - Bluetooth Qualification Body Radio Frequency Test Setup Jl1 04, 2016 BCM20702 - Editing the Configuration of 3D Glasses Using BlueTool Jl1 04, 2016 BCM20702 - Downloading Firmware to BCM20702 Modules Using BlueTool Jl1 04, 2016 BCM20702 - Collaborative Coexistence Interfaces Jl1 04, 2016	
Product Information Notice (PIN) (1)	
PIN162703: Acquisition of Broadcom's Internet of Things Business Jl1 25, 2016	

Products	Applications	Design Support	Buy & Sample
Wireless	Internet of Things (IoT)	Cypress Developer Community	Request Samples
WICED Wi-Fi	Aerospace & Defense	WICED IoT Community	Buy Devices & Dev. Kits
Bluetooth Low Energy	Automotive Solutions	Knowledge Base	
32-bit ARM® Cortex® MCUs	Home Appliance	Workshops	About Us
Programmable System-on-Chip	Medical	Video	Investors
Universal Serial Bus (USB)	Consumer Electronics	Development Kits/Boards	Careers
Memory	Communication & Telecom	Quality & Reliability	
Touch Sensing	Industrial	RoHS & Green	
Power Management ICs	Wireless	Design Partner Program	
Clocks & Buffers	Reference Designs	WICED IoT Partners	
		Product Roadmaps	

Contact Us

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