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BCM20733A2KFB1G

Status: In Production

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

- DESIGN SUPPORT**
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Datasheet

BCM20733 - Single-Chip Bluetooth Transceiver for Wireless Input Devices (pdf, 4.92 MB)  
 Datasheet updated: July 05, 2016

BCM20733A2KFB1G	
Automotive Grade	No
Bluetooth Specification	Bluetooth 3.0
CPU Core	ARM7TDMI-S
Cypress Module Area (mm)	N/A
Dedicated ADC (Max. Resolution @ Sampling Rate)	10-bit @ 100 KHz (Static) 13-bit @ 16 KHz (Audio)
Device Type	Silicon
Interfaces	2 UART, 2 SPI, I2C, PCM, I2S
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	N/A
No. of Dedicated Timer/Counter/PWM Blocks	4
No. of GPIOs	40
Partner Modules Available	N
Power-Class	Class 1, Class 2, Class 3
Product Family	BCM20704
RAM (KB)	80
Silicon Features	Infrared TX/RX, Keyboard Scanner, Mouse Quadrature Decoder, Shutter Control for 3D Glasses, 4 TRIAC controls, Audio, Class-D Audio Amplifier
Wireless Technology	Bluetooth (BR+ EDR)

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	81
Package Cross Section Drawing	Download
Package Carrier	TRAY
Package Carrier Drawing / Orientation	Package Orientation
Standard Pack Quantity	2436
Minimum Order Quantity (MOQ)	348
Order Increment	348
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
Print RoHS Certificate of Compliance	Y
PB Free	Y
Lead/Ball Finish	Sn/Ag/Cu
Marking	Cypress Marking Format

TECHNICAL DOCUMENTS	
Application Notes (38)	
BCM20733, BCM20734 - RSSI Measurement Setup Jul 05, 2016	
BCM20734 - Over the air throughput classic test setup Jul 05, 2016	
BCM20738 - How to Make an LE Connection Using Bluetooth Jul 05, 2016	
BCM20730 - Transmit and Receive Testing with BlueTool Jul 05, 2016	
BCM920732HW - WICED Smart Hardware Interfaces Jul 05, 2016	
BCM20732/BCM20736/BCM20737 - BCM2073XS Planar Inverted-F Antenna (PIFA) Guidelines Jul 05, 2016	
BCM20734/BCM20735 - Over-the-Air (OTA) Firmware Update Procedure For Bluetooth Low Energy (BLE) Devices Jul 05, 2016	
BCM20730/BCM20733 HID OTA firmware upgrade - Upgrading Human Interface Device Firmware (Example Protocol, Commands, and Scripts) Jul 05, 2016	
BCM20738 - Low-Energy Bluetooth RF Testing Using BlueTool Jul 05, 2016	
BCM20733 - Over-The-Air Throughput Test Setup Using Broadcom® BlueTool Software Jul 05, 2016	
BCM20733 - Downloading Firmware to BCM20733 Modules Using BlueTool Jul 05, 2016	
BCM20734 - 20734 LE Audio App Note Jul 05, 2016	
BCM20734 - Failsafe OTA App Note for br-edr Jul 05, 2016	
BCM20734 - Establishing Bluetooth Low Energy (BLE) Connections and Conducting Throughput Testing using BlueTool Jul 05, 2016	
BCM20734 - Low-Energy Bluetooth RF Testing Using BlueTool Jul 05, 2016	
BCM20734 - Transmit and Receive Testing Using the BlueTool Utility Jul 05, 2016	
BCM20734 - Bluetooth Qualification Body Radio Frequency Test Setup Jul 05, 2016	
BCM20732 - Downloading Firmware to BCM20732 Modules Using BlueTool Jul 04, 2016	
BCM20730/BCM20733 HID OTA firmware upgrade - Upgrading Human Interface Device Firmware (Example Protocol, Commands, and Scripts) Jul 04, 2016	
BCM20730/BCM20733 EEPROM format for OTA - EEPROM Format Information and Firmware Upgrading Jul 04, 2016	
BCM20730/BCM20733 IR application notes - IR Transmission Support Jul 04, 2016	
BCM20730/BCM20733 - Keyscan Matrix Jul 04, 2016	
BCM20705 - Headless Mode and Power Conservation for Bluetooth Device and Host Jul 04, 2016	
BCM20730 - Over-The-Air Remote Loopback Throughput Testing Using Broadcom® BlueTool Software Jul 04, 2016	
BCM20730 - Downloading Firmware to BCM20730 Modules Using BlueTool Jul 04, 2016	
BCM20715 - PCB Layout Guidelines Jul 04, 2016	
BCM20710 - PCB Layout Guidelines Jul 04, 2016	
BCM20710A1 - Class 1 Bluetooth Transmitter Load-Pull Measurements Jul 04, 2016	
Coex mapping - BCM20710 2-Wire, 3-Wire, and 4-Wire Coexistence Jul 04, 2016	
BCM20710 - WLBGA SECI Mapping Jul 04, 2016	
BCM2070X - Bluetooth Manufacturing Test Tool for WICED Devices Jul 04, 2016	
BCM20704 - Establishing Bluetooth Low Energy (BLE) Connections and Conducting Throughput Testing using BlueTool Jul 04, 2016	
BCM20704 - Over-The-Air Throughput Test Setup Using Broadcom® BlueTool Software Jul 04, 2016	
BCM20704 - Enabling the BCM20704 for Transmit and Receive Testing Jul 04, 2016	
BCM20704 - Bluetooth Qualification Body Radio Frequency Test Setup Jul 04, 2016	
BCM20702 - Editing the Configuration of 3D Glasses Using BlueTool Jul 04, 2016	
BCM20702 - Downloading Firmware to BCM20702 Modules Using BlueTool Jul 04, 2016	
BCM20702 - Collaborative Coexistence Interfaces Jul 04, 2016	

Product Information Notice (PIN) (1)
PIN162703: Acquisition of Broadcom's Internet of Things Business Jul 25, 2016

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Wireless	Internet of Things (IoT)	Cypress Developer Community	Request Samples
WICED Wi-Fi	Aerospace & Defense	WICED IoT Community	Buy Devices & Dev. Kits
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Programmable System-on-Chip	Medical	Video	Careers
Universal Serial Bus (USB)	Consumer Electronics	Development Kits/Boards	
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

Corporate Headquarters:	Customer Service Support:	International Support:	Other Requests:
Cypress Semiconductor 198 Champion Court San Jose, CA 95134 USA Tel: +1-408-943-2600	+1-800-541-4736 Hours: 8:00AM - 5:00PM (local time) Create a MyCase	+1-408-943-2600 United States +1-800-541-4736 Hours: 4:30AM - 1:30PM (pacific time) 7:30PM - 4:30AM (standard time)	Contact Us Customer Care Report a Website Problem

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