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BCM20733A2KFB1G

Status: In Production

Datasheet

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Datasheet

BCM20733 - Single-Chip Bluetooth Transceiver for Wireless Input Devices (pdf, 4.92 MB)

RoHS

Ph

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	
PB Free	
Y	
Lead/Ball Finish	
Sn/Ag/Cu	
Marking	
Cypress Marking Format	

TECHNICAL DOCUMENTS
Application Notes (38)
BCM20733, BCM20734 - RSSI Measurement Setup JlI 05, 2016
BCM20734 - Over the air throughput classic test setup JlI 05, 2016
BCM20738 - How to Make an LE Connection Using BlueTool JlI 05, 2016
BCM20730 - Transmit and Receive Testing with BlueTool JlI 05, 2016
BCM920732HW - WICED Smart Hardware Interfaces JlI 05, 2016
BCM20732/BCM20736/BCM20737 - BCM2073XS Planar Inverted-F Antenna (PIFA) Guidelines JlI 05, 2016
BCM20734/BCM20735 - Over-the-Air (OTA) Firmware Update Procedure For Bluetooth Low Energy (BLE) Devices JlI 05, 2016
BCM20730/BCM20733 HID OTA firmware upgrade - Upgrading Human Interface Device Firmware (Example Protocol, Commands, and Scripts) JlI 05, 2016
BCM20738 - Low-Energy Bluetooth RF Testing Using BlueTool JlI 05, 2016
BCM20733 - Over-The-Air Throughput Test Setup Using Broadcom® BlueTool Software JlI 05, 2016
BCM20733 - Downloading Firmware to BCM20733 Modules Using BlueTool JlI 05, 2016
BCM20734 - 20734 LE Audio App Note JlI 05, 2016
BCM20734 - Failsafe OTA App Note for br-edr JlI 05, 2016
BCM20734 - Establishing Bluetooth Low Energy (BLE) Connections and Conducting Throughput Testing using BlueTool JlI 05, 2016
BCM20734 - Low-Energy Bluetooth RF Testing Using BlueTool JlI 05, 2016
BCM20734 - Transmit and Receive Testing Using the BlueTool Utility JlI 05, 2016
BCM20734 - Bluetooth Qualification Body Radio Frequency Test Setup JlI 05, 2016
BCM20732 - Downloading Firmware to BCM20732 Modules Using BlueTool JlI 04, 2016
BCM20730/BCM20733 HID OTA firmware upgrade - Upgrading Human Interface Device Firmware (Example Protocol, Commands, and Scripts) JlI 04, 2016
BCM20730/BCM20733 EEPROM format for OTA - EEPROM Format Information and Firmware Upgrading JlI 04, 2016
BCM20730/BCM20733 IR application notes - IR Transmission Support JlI 04, 2016
BCM20730/BCM20733 - Keyscan Matrix JlI 04, 2016
BCM20705 - Headless Mode and Power Conservation for Bluetooth Device and Host JlI 04, 2016
BCM20730 - Over-The-Air Remote Loopback Throughput Testing Using Broadcom® BlueTool Software JlI 04, 2016
BCM20730 - Downloading Firmware to BCM20730 Modules Using BlueTool JlI 04, 2016
BCM20715 - PCB Layout Guidelines JlI 04, 2016
BCM20710 - PCB Layout Guidelines JlI 04, 2016
BCM20710A1 - Class 1 Bluetooth Transmitter Load-Pull Measurements JlI 04, 2016
Coex mapping - BCM20710 2-Wire, 3-Wire, and 4-Wire Coexistence JlI 04, 2016
BCM20710 - WLBGA SECI Mapping JlI 04, 2016
BCM2070X - Bluetooth Manufacturing Test Tool for WICED Devices JlI 04, 2016
BCM20704 - Establishing Bluetooth Low Energy (BLE) Connections and Conducting Throughput Testing using BlueTool JlI 04, 2016
BCM20704 - Over-The-Air Throughput Test Setup Using Broadcom® BlueTool Software JlI 04, 2016
BCM20704 - Enabling the BCM20704 for Transmit and Receive Testing JlI 04, 2016
BCM20730 - Bluetooth Qualification Body Radio Frequency Test Setup JlI 04, 2016
BCM20702 - Editing the Configuration of 3D Glasses Using BlueTool JlI 04, 2016
BCM20702 - Downloading Firmware to BCM20702 Modules Using BlueTool JlI 04, 2016
BCM20702 - Collaborative Coexistence Interfaces JlI 04, 2016
Product Information Notice (PIN) (1)
PIN162703: Acquisition of Broadcom's Internet of Things Business JlI 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

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

PRODUCTS

APPLICATIONS

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BUY & SAMPLES

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