



# BCM20736E

Status: NRND: Recommended CYW20736E  
RoHS PB Free

## BCM20736E

Automotive Grade	No
Automotive Qualified	N
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
Tape & Reel	N
Wireless Technology	Bluetooth Low Energy

## Packaging/Ordering

No. of Pins 48  
 Package Carrier TRAY  
 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  
 RoHS Compliant Y  
 PB Free Y  
 Lead/Ball Finish Ni/Au