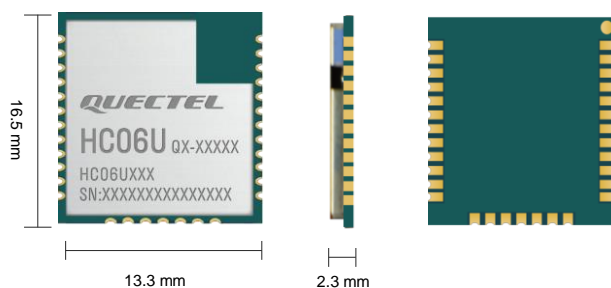


Quectel HC06U

Stand-alone BLE Module Ultra-Compact LCC Package



HC06U is a cost-effective, industrial grade and stand-alone BLE 5.0 module featuring high performance and small size. With an ultra-compact size of 16.5 mm × 13.3 mm × 2.3 mm , it optimizes the size and cost for end-products, which fully meets the demands of size sensitive applications.

The surface-mount technology (SMT) enhances its durability and robustness. The low profile and small size of LCC package ensure that HC06U can be easily embedded into size-constrained applications and provide reliable connectivity with these applications. The advanced package allows for large-scale automated manufacturing which has strict requirements on cost and efficiency.

Based on stand-alone BLE chip, HC06U can offer diversified applications for customers. Combined with its ultra-compact size, low power consumption, ultra-wide temperature range and high reliability, HC06U can meet the requirements of low power applications such as consumer electronics and sports and leisure.



Key Features

- ✓ Support Bluetooth 5.0
- ✓ Operating temperature range: -40 °C to +85 °C
- ✓ Easier soldering and testing process with LCC package
- ✓ Faster time to market: simple design minimizes design-in time and development efforts
- ✓ Support built-in ceramic antenna or external antenna



Ultra-compact Size



Operating Temperature
Range: -40 °C to +85 °C



Bluetooth 5.0



LCC Package

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Bluetooth		HC06U	
Region	Global		
Function	Bluetooth 5.0		
Level	Class 2		
Temperature Range			
Operating Temperature Range	-40 °C to +85 °C		
Storage Temperature Range	-40 °C to +125 °C		
Certifications			
Regulatory	Europe: CE America: FCC Canada: IC Australia/New Zealand: RCM		
Interfaces			
SPI	× 1		
UART	× 1		
I2C	× 1		
GPIO	× 8		
Antenna Interfaces	× 1 (Built-in ceramic antenna or external antenna) (Optional)		
Supply Voltage			
Power Supply Voltage	2.0–3.6 V, Typ. 3.3 V		
General Features			
Encryption Mode	SMP		
Working Mode	BLE		
Dimension	16.5 mm × 13.3 mm × 2.3 mm		
Weight	0.85 g		
RF Performance			
		Receiving Sensitivity (Typ.)	Output Power (Typ.)
2.4 GHz	BLE	-90 dBm	2 dBm