

# Product Brief

# WIBNB Module

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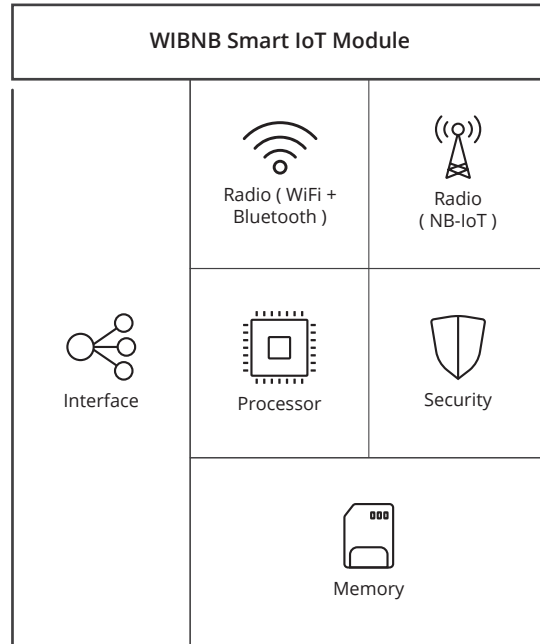
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## General Information

WIBNB is a Smart IoT Module that enables out-of-the-box Cloud services and data analytics to silo IoT application developers and smart product manufacturers. The module synergizes enterprise-grade, secure NB-IoT connectivity, high performance dual core processor, rich set of analog/digital/communication peripherals and robust and compact design. WIBNB is optimized for cost, ultra low power consumption and fast integration into manufacturer’s products. WIBNB Smart IoT Module comes with an easy to use SDK that incorporates all of the common IoT functions such as management, security, computation, diagnostics and Cloud communication.



WIBNB Module Architecture

## Key Benefits

- Low Cost
- Zero Touch Setup
- Fully Certified
- Day One Cloud Connectivity

## Applications

WIBNB can be integrated into original equipment manufacturer products in areas such as;

- Industrial Equipment
- Consumer Electronics
- HVAC Monitoring and Remote Control
- Smart City
- Agriculture



WIBNB Module

## Features

Hardware Features	
Processor	
Microcontroller	240 MHz, Dual Core
Security Features	Secure Boot, Flash Encryption, Crypto-Acceleration
Radio	
Bluetooth	Classic and Bluetooth Smart
WiFi	Certified 2.4GHz 802.11 b/g/n/e/i (802.11n up to 150 Mbps)
RF Certification	FCC/CE/IC
NB-IoT	LTE Cat NB1 Connectivity 800MHz
Supply	
Supply (Dual)	3.3V
Current Specs	500mA max, 200mA avg (3.3V)
Interfaces	
Analog Input	4 Channels (SAR 3.3V) / Cloud configurable
Digital Input	3 Channels (3.3V CMOS) / Cloud configurable
Digital Output	4 Channels (3.3V CMOS) / Cloud configurable
Communication	UART (3.3V CMOS) / Cloud configurable
Auxiliary	RGB LED, Reset Button
Mechanical	
Dimensions (mm)	60mm L x 30mm W x 6.6mm H (w/o connectors)
Antenna	Trace or External (BT & WiFi), External (NB-IoT)
Software Features	
SDK	
Communication	UART
Implementation	ANSI C, C++ Python
Security	
WiFi	WPA/WPA2/WPA2-Enterprise/WPS
Encryption	AES 128/192/256, RSA/ECC/HASH (SHA-2)
Connectivity	
WiFi Mode	Station/SoftAP/SoftAP+Station
Bluetooth Stack	Bluetooth v4.2 and Classic
Local Network	P2P and Wireless Mesh
Out-of-the-Box Features	
Provisioning	using WiFi/BT/NB-IoT
Module OTA Update	Automatic, WiFi/NB-IoT
Client OTA Update	On demand
Cloud	Inovatink Device Cloud / C2C API
Management	Cloud based

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