inovatink

Product Brief
WIB Module

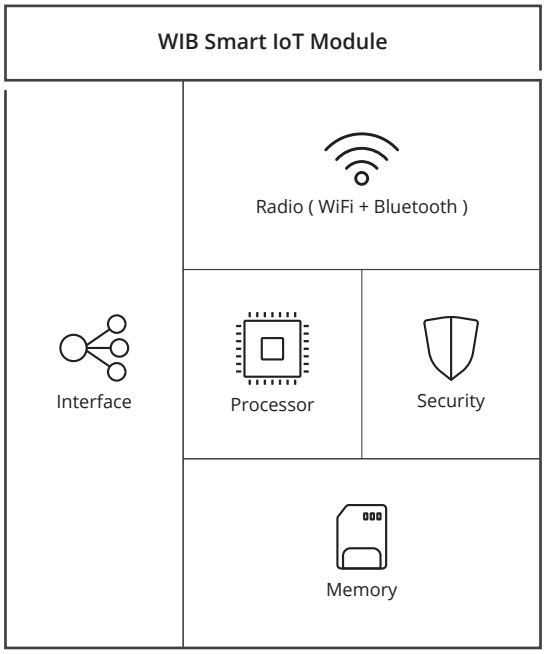
September 2019, v1.3

WWW.INOVATINK.COM

INOVATINK, 2019

General Information

WIB 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. WIB module synergizes enterprise-grade, secure WiFi and Bluetooth connectivity, high performance dual core processor, rich set of analog/digital/communication peripherals in robust and compact design. WIB is optimized for cost, low power consumption and fast integration into manufacturer's products. It comes with a simple SDK that incorporates all of the common IoT functions such as management, security, computation, diagnostics and Cloud communication.



WIB Module Architecture

Key Benefits

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

Applications

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

- Industrial Equipment
- Consumer Electronics
- Small/Major Home Appliances
- HVAC Monitoring and Remote Control
- Smart Home

WIB 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
Supply	
Supply	3.3V recommended
Current Specs	500mA max, 200mA avg
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)	34mm L x 30mm W x 4.1mm H (w/o connectors)
Antenna	Trace (internal) or External WiFi/BT antenna

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
Module OTA Update	Automatic, WiFi
Client OTA Update	On demand
Cloud	Inovatink Device Cloud / C2C API
Management	Cloud based

Product Brief WIB Module
September 2019, v1.3
INOVATINK
Istanbul, Turkey