

Product Brief

WIB2G Module

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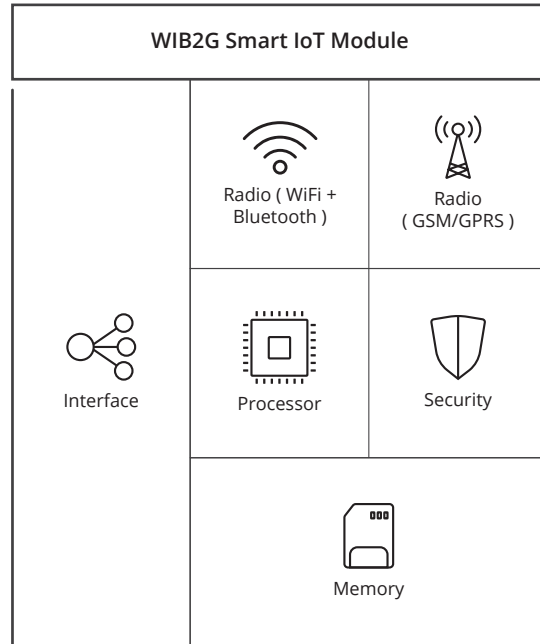
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General Information

WIB2G 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 WiFi and Bluetooth connectivity, global GPRS based connectivity, high performance dual core processor, rich set of analog/digital/communication peripherals and robust and compact design. WIB2G is optimized for cost and fast integration into manufacturer’s products. WIB2G Smart IoT Module comes with an easy to use SDK with all of the common IoT functions such as management, security, computation, diagnostics and Cloud communication.



WIB2G Module Architecture

Key Benefits

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

Applications

WIB2G can be integrated into original equipment manufacturer products in areas such as;

- Industrial Equipment
- Consumer Electronics
- HVAC Monitoring and Remote Control
- Smart City
- Security Devices
- Fleet Management



WIB2G 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
GSM/GPRS	850/ 900/ 1800/ 1900 MHz
Supply	
Supply (Dual)	3.3V & 4V
Current Specs	500mA max, 200mA avg (3.3V) & 1500mA max, 500mA avg (4V)
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), Quadband external (GPRS)
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/GPRS
Module OTA Update	Automatic, WiFi/GPRS
Client OTA Update	On demand
Cloud	Inovatink Device Cloud / C2C API
Management	Cloud based

