



HW&SW Development

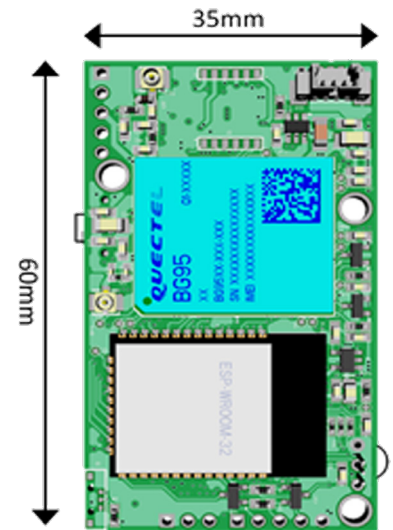
ESP930 IoT Gateway Module

ESP930 is a gateway card that allows data transfer between different platforms, e.g. collecting information from the field via WiFi or BLE, and transmitting it thru the Internet and via the cellular network, to a cloud or a local server.

ESP930 works in 2G, LTE CAT-M1/NB2, EGPRS cellular standards, integrated with Wi-Fi, Bluetooth & BLE connectivity and GNSS positioning.

ESP930 is suitable for IoT based projects, with network devices, low-power and battery powered, requiring multiple I/O interfaces with Wi-Fi and Bluetooth functionalities.

ESP930 is suitable for a wide range of applications such as: delivery tracking, e-commerce, navigation inside buildings, identification of beacon units in the field, agricultural, security uses and more.



Scan for more information

ESP930 Features / Advantages:

- » Global link, using cellular network.
- » Global positioning with GPS, Galileo, GLONASS and using Bluetooth & Wi-Fi.
- » Very low power consumption - 3.6v@2uA.
- » Battery powered support. Low Battery alarm and temperature alarm.
- » Temperature sensor, accelerometer sensor.
- » Extension connector to GPIO ports and I2C, SPI, UART comms.
- » Software version update using dedicated app (OTA).
- » Saving development time compared to a product based on individual components.
- » Can be easily adapted to a variety of uses.

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our customers



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Specifications:

Items	Specifications
MCU and Memory	
MCU	Two low-power Xtensa® 32-bit LX6 microprocessors
ROM (for booting and core functions)	448 KB
SRAM (for data and instructions)	520 KB
MCU interfaces	SD card, UART, SPI, SDIO, I2C, LED PWM, Motor PWM, I 2S, IR, pulse counter, GPIO, capacitive touch sensor, ADC, DAC
Integrated crystal	40 MHz crystal
Power Supply	
Operating voltage/Power supply	3.0 V ~ 5.0 V
Power consumption	Sleep mode: 2uA Idle mode: 5uA Average op.: 80 mA
Environment	
Size	35 x 60mm
Weight	15g
Recommended operating temperature range	-40°C to +85°C
I/O Connections	
Communication Interfaces	Wi-Fi, Bluetooth, BLE, 2G / LTE CAT-M1 / CAT-NB
GPIO Extension	Up to 40 pins for general use
Applications and uses	
Applications	Cellular communication, Global positioning, Low-power alarm, Temperature sensor, Accelerometer
Uses	Agricultural, Civil and Military uses and more

