

ESP8266 Features Mind Map

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Low Power Consumption

Designed for battery-operated devices, it features sleep modes that significantly reduce power usage.

Support for Multiple Protocols

Compatible with various communication protocols like MQTT, HTTP, and TCP/IP, enhancing flexibility in applications.

Ease of Programming

Supports programming in languages like C++ and Lua, with a wide range of libraries and community support.

ESP8266 Features

The ESP8266 is a low-cost Wi-Fi microchip with versatile features ideal for IoT applications.

Wi-Fi Connectivity

Supports 802.11 b/g/n standards, enabling easy wireless communication and internet access for devices.

GPIO Pins

Offers multiple General Purpose Input/Output pins for connecting sensors, actuators, and other peripherals.

Built-in TCP/IP Stack

Includes a complete TCP/IP stack, allowing direct internet connectivity without needing additional hardware.

Compact Size

Small form factor makes it suitable for space-constrained applications, facilitating integration into various projects.