

LAB 5-0-0-ARDUINO INTERNET OF THINGS PROGRAMMING

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CREDITS

- <https://www.arduino.cc/>
- <https://www.simulide.com/p/home.html>
- <http://simonmonk.org/>

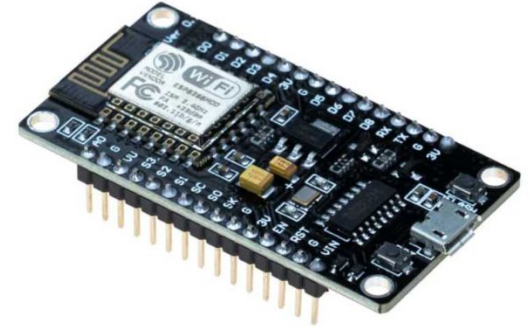
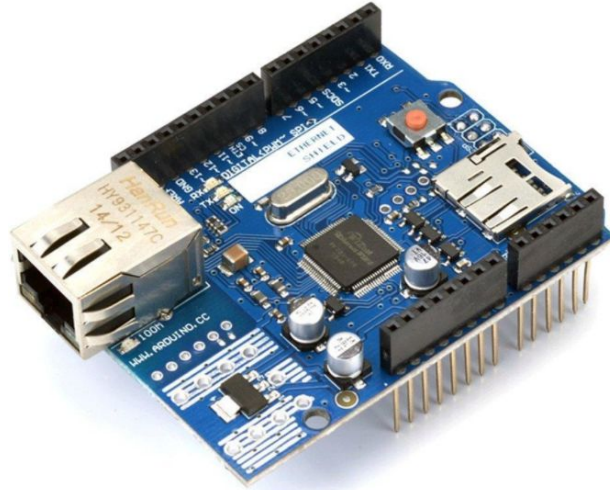
ARDUINO INTERNET OF THINGS PROGRAMMING

- The Internet of Things (IoT) is the concept that more and more devices will become connected to the Internet. That doesn't just mean more and more computers using browsers, but actual appliances and wearable and portable technology.
- This includes all sorts of home automation from smart appliances and lighting, to security systems and even Internet-operated pet feeders as well as lots of less practical but fun projects.

ARDUINO INTERNET OF THINGS PROGRAMMING

- Arduinos are used a lot to create IoT projects, but require either a specialized Arduino or shields to provide the network capabilities that will allow you to measure and control things over your local network and the Internet. The network interface might be in the form of a cabled Ethernet connection or a WiFi connection.
- In this lecture, we will explore the use of an Arduino with an Ethernet shield, or a combined device like the EtherTen from Freetronics, as well as the increasingly popular ESP8266 WiFi boards that can be programmed in Arduino C and are wonderfully low cost, starting at \$5 or less.

LEFT TO RIGHT: ARDUINO UNO + ETHERNET SHIELD, ETHERTEN, AND
NODE MCU ESP8266 BOARDS



WIFI MODULES

<https://www.robotistan.com/wifi>



NodeMCU V3 LoLin ESP8266 Gelgitirme Kartı - USB Chip CH340

36,18 TL



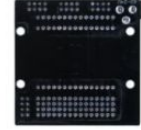
NodeMCU V3 LoLin ESP8266 Gelgitirme Kartı - CP2102

37,18 TL



ESP-12E ESP8266 Wifi Modül

26,12 TL



NodeMCU LoLin ESP8266 Base Shield - NodeMCU CH340 Uyumlu

19,94 TL



ESP32-CAM Wifi Bluetooth Gelgitirme Kartı + OV2640 Kamera Modül

139,55 TL



USB - ESP8266 Wifi Adaptör

10,96 TL



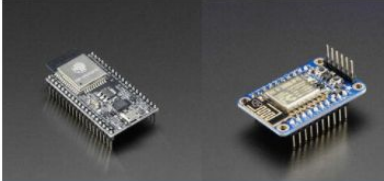
ESP8266 ESP-13 Wifi Shield

89,71 TL

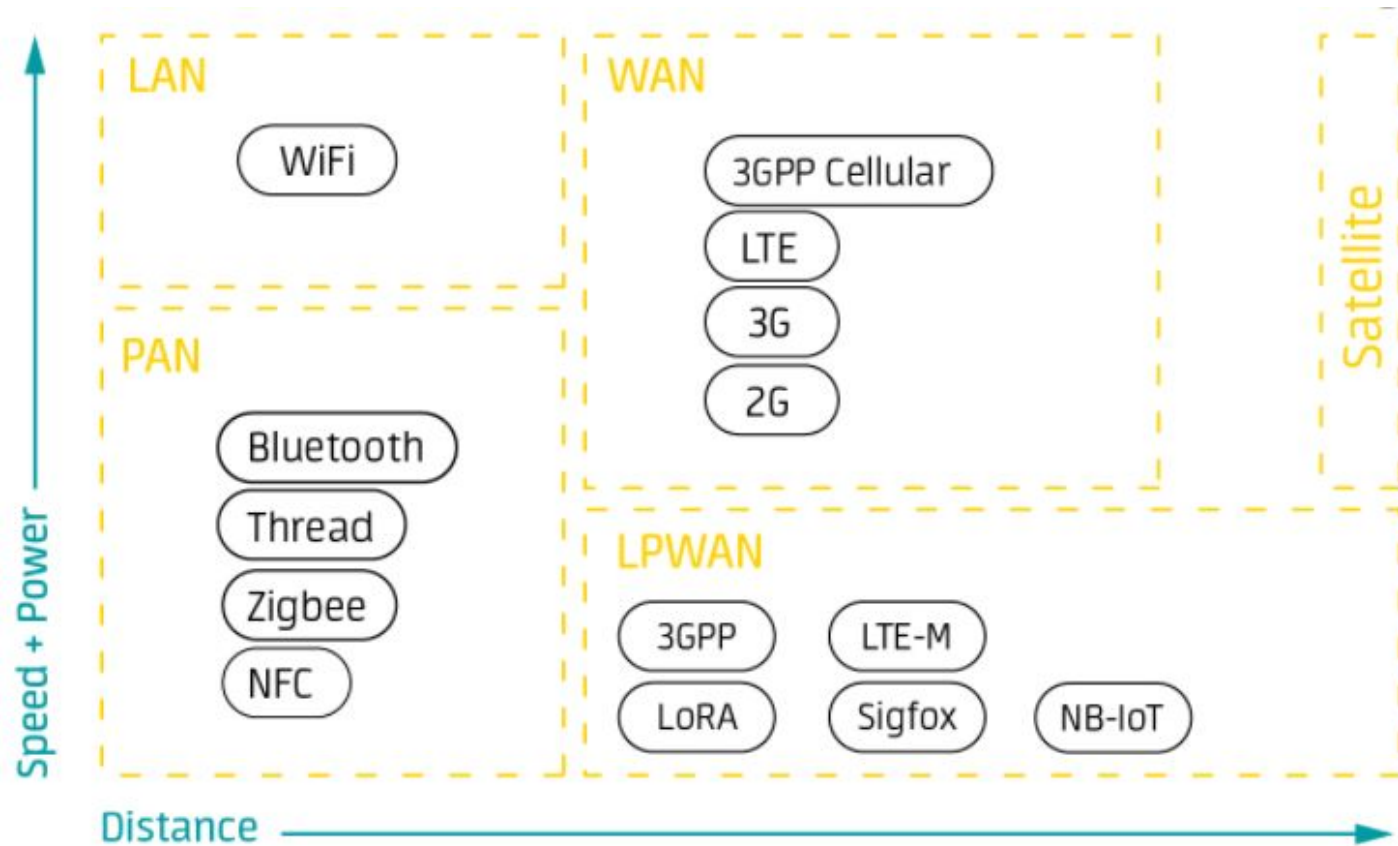


ESP8266-03 Dahili Antenli Wifi Serial Transceiver Module (SMD)

34,89 TL



IOT Connection Types



IOT Connection Types

Connection Types



As an Edge Device

Connect to Server through IoT Gateway



As a Connectivity Module

Connect to Server without IoT Gateway



Device-to-device Security

Connect to other devices



IOT Connection Types

Connection Types



As an Edge Device

Connect to Server through IoT Gateway



As a Connectivity Module

Connect to Server without IoT Gateway



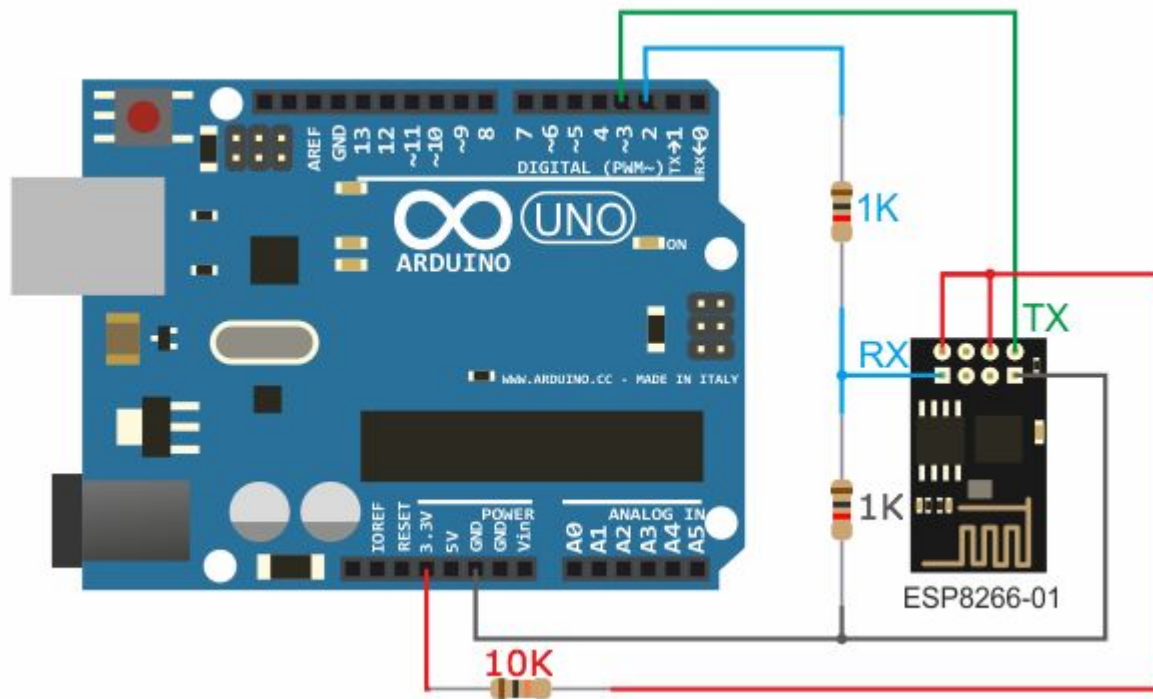
ESP8266 WiFi module

Device-to-device Security

Connect to other devices



Simple Solution



ESP8266 WiFi module



Güvenli
Alışveriş



256 bit ssl
şifreleme

Ürün arayın...

Ar

KOMPONENTCI

Tüm Kategoriler

Bilgisayar ve Teknoloji

İndirimli Ürünler

Toptan Satış

İletişim

Anasayfa

Kablosuz Haberleşme

Wifi Modül

Komponentci

ESP8266 ESP-01 Seri Wifi Kablosuz Verici Modülü



Fiyat : 1,35 USD + KDV

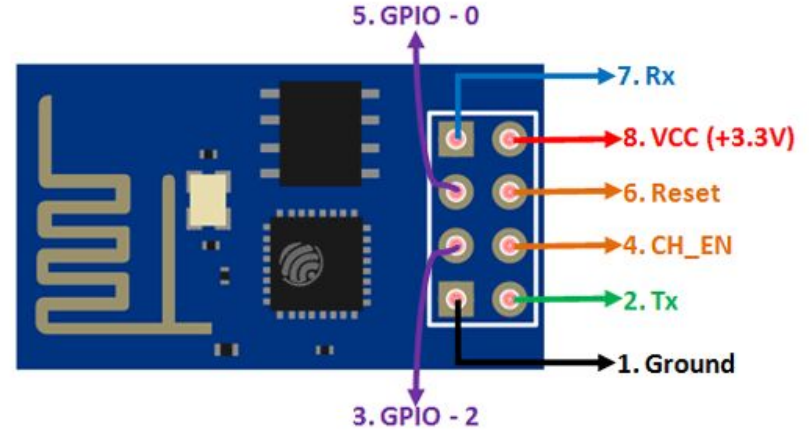
KDV Dahil : 13,52 TL

Havale / EFT
13,58 TL

4,87 TL'den başlayan taksit
seçenekleri için tıklayın.



AYNI GÜN
KARGO



Used to receive (RX) and transmit (TX)
TTL serial data

Communication Process

