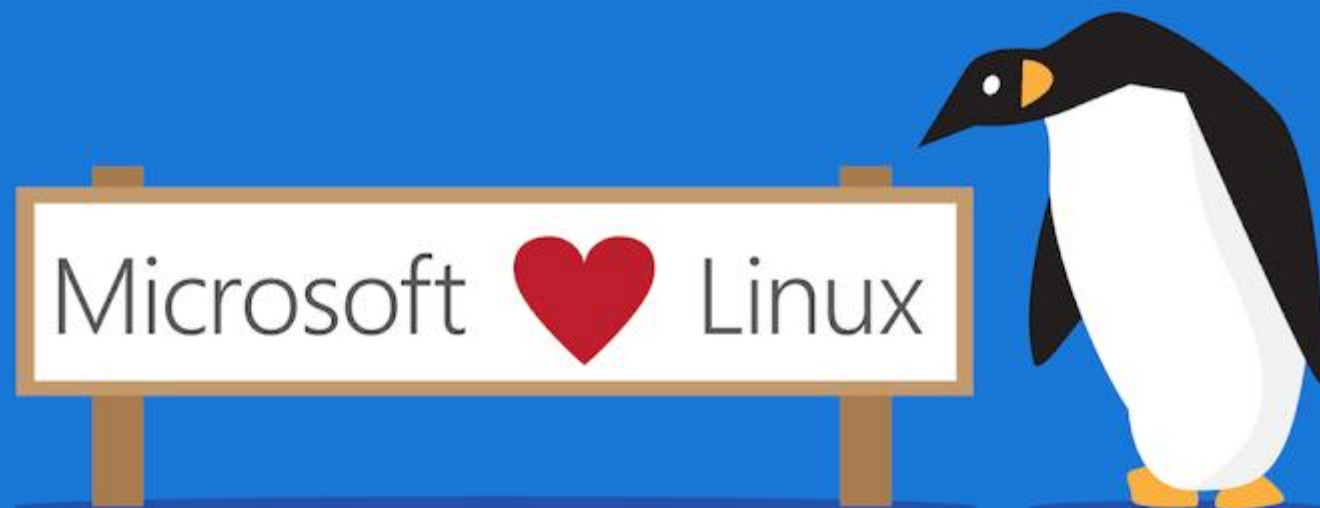




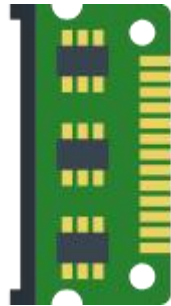
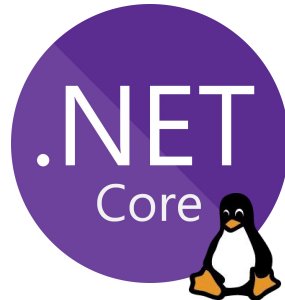
# .NET Core IoT



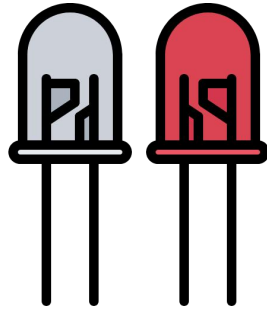
# .NET Core IoT Libraries



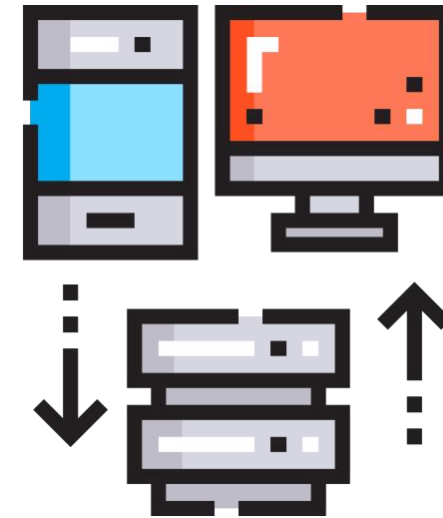
Sensors



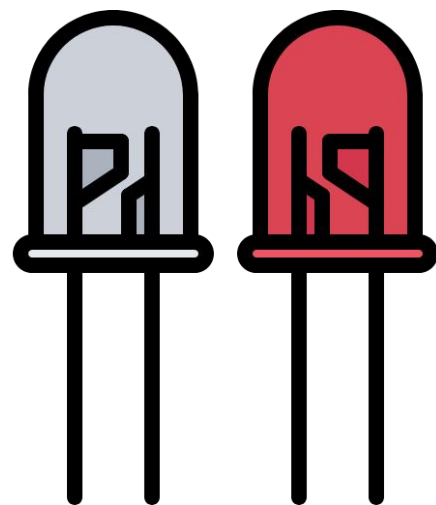
Device Bindings



GPIO



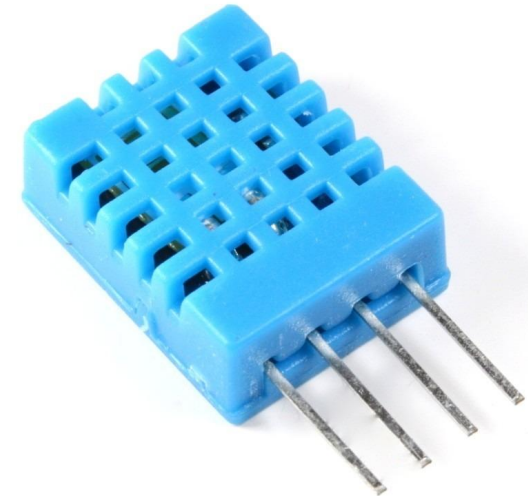
IoT Applications



```
1 using System;
2 using System.Threading;
3 using System.Device.Gpio.Drivers;
4 using System.Device.Gpio;
5
6 namespace core_test
7 {
8     class Program
9     {
10         static void Main(string[] args)
11         {
12             var pin1 = 1;
13             var pin17 = 17;
14
15             GpioController gpiochip0 =
16                 new GpioController(PinNumberingScheme.Logical,
17                                     new LibGpiodDriver(0));
18
19             // open /dev/gpiochip0 offset 1
20             gpiochip0.OpenPin(pin1, PinMode.Output);
21
22             // open /dev/gpiochip3 offset 17
23             gpiochip3.OpenPin(pin17, PinMode.Output);
24
25             while (true)
26             {
27                 gpiochip0.Write(pin1, PinValue.High);
28                 Thread.Sleep(1000);
29                 gpiochip0.Write(pin1, PinValue.Low);
30                 Thread.Sleep(1000);
31             }
32         }
33     }
34 }
```



# MQTT.ORG



```
1  using System;
2  using Iot.Device.DHTxx;
3  using System.Threading;
4  using mqttAPI;
5
6  namespace DataBaseEdge
7  {
8      0 references
9      class Program
10     {
11         0 references
12         static void Main(string[] args)
13         {
14             Console.WriteLine("Sensor up");
15             using (Dht11 sensor = new Dht11(23))
16             {
17                 while (true)
18                 {
19                     var readTemp = sensor.Temperature.Celsius;
20                     if (sensor.IsLastReadSuccessful)
21                     {
22                         var temperature = new Temperature();
23                         temperature.value = readTemp;
24
25                         MqttService.SendToMqttService(temperature);
26
27                         Console.WriteLine($"Temperature {temperature.value}");
28                         Thread.Sleep(1000);
29                     }
30                 }
31             }
32         }
33     }
```



# <https://github.com/dotnet/iot>

```
dotnet add package System.Device.Gpio --source https://dotnetfeed.blob.core.windows.net/dotnet-iot/index.json  
dotnet add package IoT.Device.Bindings --source https://dotnetfeed.blob.core.windows.net/dotnet-iot/index.json
```

THANK YOU FOR YOUR INTEREST.

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