GpioDriver Class

Reference

Definition

Namespace: System.Device.Gpio

Assembly: System.Device.Gpio.dll

Package: System.Device.Gpio v2.1.0

Base class for Gpio Drivers. A Gpio driver provides methods to read from and write to digital I/O pins.

In this article

Definition

Constructors

Properties

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Applies to

```
C#

public abstract class GpioDriver : IDisposable
```

Inheritance Object → GpioDriver

Derived Iot.Device.Board.DummyGpioDriver

Iot.Device.Ft232H.Ft232HGpio

Iot.Device.Ft4222.Ft4222Gpio

Iot.Device.Mcp23xxx.Mcp23xxx

Iot.Device.Pcx857x.Pcx857x

More...

Implements IDisposable

Constructors

GpioDriver()	

Properties

PinCount	The number of pins provided by the driver.

Methods

AddCallbackForPinValue ChangedEvent(Int32, PinEvent Types, PinChangeEventHandler)	Adds a handler for a pin value changed event.
ClosePin(Int32)	Closes an open pin.
ConvertPinNumberToLogical NumberingScheme(Int32)	Converts a board pin number to the driver's logical numbering scheme.
Dispose()	Disposes this instance, closing all open pins
Dispose(Boolean)	Disposes this instance
GetPinMode(Int32)	Gets the mode of a pin.
IsPinModeSupported(Int32, Pin Mode)	Checks if a pin supports a specific mode.
OpenPin(Int32)	Opens a pin in order for it to be ready to use. The driver attempts to open the pin without changing its mode or value.
Read(Int32)	Reads the current value of a pin.
RemoveCallbackForPinValue ChangedEvent(Int32, Pin ChangeEventHandler)	Removes a handler for a pin value changed event.
SetPinMode(Int32, PinMode)	Sets the mode to a pin.
SetPinMode(Int32, PinMode, PinValue)	Sets the mode to a pin and sets an initial value for an output pin.
WaitForEvent(Int32, PinEvent Types, CancellationToken)	Blocks execution until an event of type eventType is received or a cancellation is requested.
WaitForEventAsync(Int32, Pin EventTypes, CancellationToken)	Async call until an event of type eventType is received or a cancellation is requested.

Write(Int32, PinValue)	Writes a value to a pin.

Applies to

Product	Versions
.NET IoT Libraries	1.0.0, 1.1.0, 1.2.0, 1.3.0, 1.4.0, 1.5.0, 2.0.0, 2.1.0