

AsiHpi Namespace

HpiException Class

Parent class: Exception

HpiSubsystem Class

Properties

NumAdapters (int, read only)

Version (uint, read only)

VersionString (String, read only)

Methods

GetAdapterIndexAndType(int iterator)

Returns the index and type for the specified adapter.

Note: valid values for iterator are 0 through (*NumAdapters* - 1) but the returned adapter indices may be outside that range and non-contiguous.

returns: Tuple<uint adapterIndex, String adapterType>

OpenAdapter(ushort adapterIndex)

Opens the specified adapter and returns the Adapter object

returns: Adapter object

Adapter Class

Constructor

Adapter(HpiSubsystem ss,ushort i)

Use the OpenAdapter() method of the HpiSubsystem class rather than calling this constructor directly.

Properties

Index (ushort, read only)

The adapter index.

Methods

GetInfo()

Returns the adapter information (output stream count, input stream count, hardware version, serial number and adapter type) in a Tuple.

returns: Tuple<

 ushort numOutStreams,

 ushort numInStreams,

 ushort Version,

 uint SerialNumber,

 ushort AdapterType>

OpenMixer()

Opens the adapter's mixer and returns the Mixer class object.

Mixer Class

Constructor

Mixer(Adapter _adapter)

Use the OpenMixer() method of the Adapter class rather than calling this constructor directly.

Properties

Handle (uint, read only)

Methods

GetGpio()

Returns a Gpio class object or raises HpiException if the control is not found.

Gpio Class

Constructor

Gpio(Mixer _mixer)

Use the GetGpio() method of the Mixer class rather than calling this constructor directly.

Properties

Outputs (List<GpioOutput>)

Inputs (List<GpioInput>)

NumOutputs (UIntPtr, read only)

NumInputs (UIntPtr, read only)

Methods

GetOutputValue(UIntPtr nOutput)

This function is used internally by the GpioOutput class's Value property.

returns: Boolean (current value)

SetOutputValue(UIntPtr nOutput, Boolean Value)

This function is used internally by the GpioOutput class's Value property.

returns: Boolean (previous value)

GetInputValue(UIntPtr nInput)

This function is used internally by the GpioInput class's Value property.

returns: Boolean (current value)

GpioOutput Class

Constructor

GpioOutput(Gpio _gpio, UIntPtr _num)

Used internally by the Gpio constructor.

Properties

Value (Boolean, read/write)

GpioInput Class

Constructor

GpioInput(Gpio _gpio, UIntPtr _num)

Used internally by the Gpio constructor.

Properties

Value (Boolean, read only)