

IPDeviceEndPoint Members

Namespace: IPS7Lnk.Advanced

Assemblies: IPS7LnkNet.Advanced.dll, IPS7LnkNet.Advanced.dll

The [IPDeviceEndPoint](#) type exposes the following members.

Constructors

IPDeviceEndPoint(IPAddress)

Initializes a new instance of the [IPDeviceEndPoint](#) class with the specified [address](#).

C#

```
public IPDeviceEndPoint(IPAddress address)
```

Parameters

[address](#) [IPAddress](#)

The [IPAddress](#) of the endpoint.

Exceptions

[ArgumentNullException](#)

The [address](#) is a null reference (Nothing in Visual Basic).

IPDeviceEndPoint(IPAddress, Int32)

Initializes a new instance of the [IPDeviceEndPoint](#) class with the specified [address](#) and [rack](#) number.

C#

```
public IPDeviceEndPoint(IPAddress address, int rack)
```

Parameters

[address](#) [IPAddress](#)

The [IPAddress](#) of the endpoint.

[rack](#) [Int32](#)

The rack number associated with the [address](#).

Exceptions

[ArgumentNullException](#)

The `address` is a null reference (Nothing in Visual Basic).

ArgumentOutOfRangeException

The `rack` is out of the bounds defined by `MinRack` or `MaxRack`.

IPDeviceEndPoint(IPAddress, Int32, Int32)

Initializes a new instance of the `IPDeviceEndPoint` class with the specified `address`, `rack` number and `slot` number.

C#

```
public IPDeviceEndPoint(IPAddress address, int rack, int slot)
```

Parameters

`address` `IPAddress`

The `IPAddress` of the endpoint.

`rack` `Int32`

The rack number associated with the `address`.

`slot` `Int32`

The slot number associated with the `address`.

Exceptions

ArgumentNullException

The `address` is a null reference (Nothing in Visual Basic).

ArgumentOutOfRangeException

The `rack` or `slot` is out of the bounds defined by `MinRack`, `MaxRack`, `MinSlot` or `MaxSlot`.

IPDeviceEndPoint(String)

Initializes a new instance of the `IPDeviceEndPoint` class with the specified `address`.

C#

```
public IPDeviceEndPoint(string address)
```

Parameters

`address` `String`

The string representation of an `IPAddress` of the endpoint.

Exceptions

ArgumentException

The **address** is equal to **Empty**.

ArgumentNullException

The **address** is a null reference (Nothing in Visual Basic).

FormatException

The **address** is an invalid string representation of an **IPAddress**.

IPDeviceEndPoint(String, Int32)

Initializes a new instance of the **IPDeviceEndPoint** class with the specified **address** and **rack** number.

C#

```
public IPDeviceEndPoint(string address, int rack)
```

Parameters

address String

The string representation of an **IPAddress** of the endpoint.

rack Int32

The rack number associated with the **address**.

Exceptions

ArgumentException

The **address** is equal to **Empty**.

ArgumentNullException

The **address** is a null reference (Nothing in Visual Basic).

ArgumentOutOfRangeException

The **rack** is out of the bounds defined by **MinRack** or **MaxRack**.

FormatException

The **address** is an invalid string representation of an **IPAddress**.

IPDeviceEndPoint(String, Int32, Int32)

Initializes a new instance of the **IPDeviceEndPoint** class with the specified **address**, **rack** number and **slot** number.

C#

```
public IPDeviceEndPoint(string address, int rack, int slot)
```

Parameters

address String

The string representation of an [IPAddress](#) of the endpoint.

rack Int32

The rack number associated with the **address**.

slot Int32

The slot number associated with the **address**.

Exceptions

[ArgumentException](#)

The **address** is equal to [Empty](#).

[ArgumentNullException](#)

The **address** is a null reference (Nothing in Visual Basic).

[ArgumentOutOfRangeException](#)

The **rack** or **slot** is out of the bounds defined by [MinRack](#), [MaxRack](#), [MinSlot](#) or [MaxSlot](#).

[FormatException](#)

The **address** is an invalid string representation of an [IPAddress](#).

Fields

DefaultRack

Specifies the default value that is by default assigned to the [Rack](#) property.

C#

```
public const int DefaultRack =
```

Field Value

[Int32](#)

DefaultSlot

Specifies the default value that is by default assigned to the [Slot](#) property.

C#

```
public const int DefaultSlot = 2
```

Field Value

Int32

MaxRack

Specifies the maximum value that can be assigned to the [Rack](#) property.

C#

```
public const int MaxRack = 65535
```

Field Value

Int32

MaxSlot

Specifies the maximum value that can be assigned to the [Slot](#) property.

C#

```
public const int MaxSlot = 65535
```

Field Value

Int32

MinRack

Specifies the minimum value that can be assigned to the [Rack](#) property.

C#

```
public const int MinRack =
```

Field Value

Int32

MinSlot

Specifies the minimum value that can be assigned to the [Slot](#) property.

C#

```
public const int MinSlot =
```

Field Value

Int32

Properties

Address

Gets or sets the IP address of the endpoint.

C#

```
public virtual IPAddress Address { get; set; }
```

Property Value

[IPAddress](#)

An instance of the [IPAddress](#) class containing the IP address of the endpoint.

Exceptions

[ArgumentNullException](#)

The value is a null reference (Nothing in Visual Basic).

AddressFamily

Gets the address family to which the endpoint belongs.

C#

```
public override AddressFamily AddressFamily { get; }
```

Property Value

[Sockets.AddressFamily](#)

One of the members defined by the [AddressFamily](#) enumeration. Which specifies the addressing scheme that is used by the endpoint's underlying network protocol.

IsCustomRack

Gets a value indicating whether a custom rack has been associated with this endpoint.

C#

```
public bool IsCustomRack { get; }
```

Property Value

[Boolean](#)

The value true, if there was a custom rack assigned to this endpoint; otherwise the value false.

Remarks

In case there is no custom rack number defined the PLC driver does decide on its own which rack is to be used by default to address the PLC device.

IsCustomSlot

Gets a value indicating whether a custom slot has been associated with this endpoint.

C#

```
public bool IsCustomSlot { get; }
```

Property Value

Boolean

The value true, if there was a custom slot assigned to this endpoint; otherwise the value false.

Remarks

In case there is no custom slot number defined the PLC driver does decide on its own which slot is to be used by default to address the PLC device.

Rack

Gets or sets the rack number of the endpoint.

C#

```
public int Rack { get; set; }
```

Property Value

Int32

An integer value in the range [MinRack](#) to [MaxRack](#) indicating the rack number of the endpoint.

Exceptions

[ArgumentOutOfRangeException](#)

The value that was specified is less than [MinRack](#) or greater than [MaxRack](#).

Remarks

In case there is no custom rack number defined this property does return the most typical default rack number defined by [DefaultRack](#).

Slot

Gets or sets the slot number of the endpoint.

C#

```
public int Slot { get; set; }
```

Property Value

[Int32](#)

An integer value in the range [MinSlot](#) to [MaxSlot](#) indicating the slot number of the endpoint.

Exceptions

[ArgumentOutOfRangeException](#)

The value that was specified is less than [MinSlot](#) or greater than [MaxSlot](#).

Remarks

In case there is no custom slot number defined this property does return the most typical default rack number defined by [DefaultSlot](#).

Methods

GetHashCode()

Returns a hash value for an endpoint.

C#

```
public override int GetHashCode()
```

Returns

[Int32](#)

An integer hash value.

ToString()

Returns a string that represents the current [IPDeviceEndPoint](#).

C#

```
public override string ToString()
```

Returns

[String](#)

A string that represents the current [IPDeviceEndPoint](#).

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