

# IONPORT.INI

## ***Introduction***

IonPort.ini is an optional text file used to configure EdgePort variables before installation. It must be placed in the Windows System32 folder. IonPort.ini settings are ignored after an EdgePort is installed. Use the EdgePort Configuration Utility to change settings after EdgePort has been installed.

IonPort.ini consists of two sections. In each section various configuration parameters may be set. A section begins with a section header and extends to the next section header or the end of the file.

This is the format of a section header:

*[sectionname]*

This is the format of a configuration parameter:

*Parameter = value*

where *Parameter* is a name that pertains to a specific section. *Value* can be a string or a decimal number. Each parameter must be defined on a separate line.

Comments are also allowed. The first non-space character of a comment line must be a semicolon (“;”).

There are two section types: a “General” section and one or more serial port sections. These two types of sections are defined below.

## **General Section**

The first section “General” defines parameters that apply to all EdgePorts. Currently the only the parameter *ComMappingBasedOnUsbPort* can be defined for the General section.

The value for this parameter is:

0 = Disable

1 = Enable

If omitted, *ComMappingBasedOnUsbPort* defaults to disabled. This section is optional.

Example to enable Communication port mapping based on USB physical port:

[General]

ComMappingBasedOnUsbPort = 1

## **Serial Port Section**

The serial port section defines parameters that apply to a specific EdgePort serial port. The format of the serial port section is:

[ *InstanceID*:*x*]

or

[default]

where *InstanceID* represents the Edgeport identifier and *x* is the serial port number starting with the number 1.

There are three different ways to identify an Edgeport:

1. Using the serial number found on the label on bottom of the unit or on the information page of the Edgeport utility – Serial Number field. For example [V22541667:1] (omit leading S)
2. Using the USB path (“ComMappingBasedOnUsbPort” is enabled) found on the information page of the Edgeport utility – Identifier field, For example [Port-11:1]
3. Using the Vendor ID and Product ID found on the information page of the Edgeport utility – Vendor ID and Product ID fields. For example [1608-0205:1]

The variables defined in the optional [**default**] section apply to any serial port without a matching specific section.

Note: Do not use the “PortName” parameter in [**default**] or [**Vendor-Product**] sections.

## **IONPORT.INI errors**

The EdgePort coinstaller ignores ionport.ini if there are any errors and will log a message to ionport.log which will be located in the system32 subdirectory.

## Serial Port Section Parameters

A table that describes the serial port parameters is shown below. These parameters are all optional. Users will typically only define “PortName” or “IndustrialSettings”

### Serial Port Parameters

Serial Port Variable	Type	Description	Example
PortName	String	PortName defines the serial port name in COMx format.	PortName = COM4
LowLatency	Flag	Rarely used. Contact tech support for details.	LowLatency = 0
RemapBaud	Flag	Rarely used. Contact tech support for details.	RemapBaud = 1
IgnoreFlush	Flag	Rarely used. Contact tech support for details.	IgnoreFlush = 1
FastWrites	Flag	Rarely used. Contact tech support for details.	FastWrites = 0
DisablePnP	Flag	Rarely used. Contact tech support for details.	DisablePnP = 0
FastReads	Flag	Rarely used. Contact tech support for details.	FastReads = 1
IgnoreTxFlush	Flag	Rarely used. Contact tech support for details.	IgnoreTxFlush = 1
IndustrialSettings	Number	Used for “S” type units	See table below

### Industrial Setting

Value	RS	Termination	Duplex	Echo	Type	Unit
0	232					
1	422	Off				
2	422	On				
3	485		Half	On		End
4	485		Half	Off		End
5	485		Half	On		Middle
6	485		Half	Off		Middle
7	485		Full		Master	End
8	485		Full		Slave	End
9	485		Full		Master	Middle
10	485		Full		Slave	Middle

## **IONPORT.INI samples**

### **Sample 1**

**; Communication port mapping based on USB port is enabled  
; Ports 1 and 2 of the EdgePort/2 are set to COM3 and COM4 respectively.  
; The EdgePort/2 is identified by its USB Port of Port-12.**

**[General]**

**ComMappingBasedOnUsbPort = 1**

**; This section defines configuration for 1st serial port of the EP/2 located at USB Port "12"**

**[Port-12:1]**

**PortName = COM3**

**; This section defines configuration for 2nd serial port of the EP/2 located at USB Port "12"**

**[Port-12:2]**

**PortName = COM4**

**;This section configures the FastReads parameter to 1 for all unspecified com ports.**

**[default]**

**FastReads = 1**

## Sample 2

**; ComMappingBasedOnUsbPort is disabled.  
; It's unlikely that a user would want set ComMappingBasedOnUsbPort to 0  
; since it limits EdgePort configurations to only the EdgePort with the  
; matching serial number only.**

**[General]**

**ComMappingBasedOnUsbPort = 0**

**; This section defines configuration for the 1st serial port of EP/2 with  
; serial number V22651684-0**

**[V22651684:1]**

**PortName = COM3**

**; This section defines configuration for the 2nd serial port of EP/2 with  
; serial number V22651684-0**

**[V22651684:2]**

**PortName = COM4**

### **Sample 3**

**; Configure the first ports 1 and 2 of an Edgeport/4s to RS232 and  
; ports 3 and 4 to RS422 with termination enabled.**

**[1608-0242:1]**

**IndustrialSettings = 0**

**[1608-0242:2]**

**IndustrialSettings = 0**

**[1608-0242:3]**

**IndustrialSettings = 2**

**[1608-0242:4]**

**IndustrialSettings = 2**