



AXIOMTEK

IRU Series

LabVIEW™ User manual

For Function Reference



Revision History

Version	Revised Date	Author	Description
1.0	2018/06/26	Mario	1 st release

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CHAPTER 1

Introduction

1.1 Install LabVIEW for IRUSeries

Refer to the IRUSeries Setup Manual

1.2 Where to open library

After Install LabVIEW for IRUSeries, The project library folder path is as follows
C:\Axiomtek\LabVIEWSDK\IRUSeries\IRUSeries_LabVIEW_SDK.lvlib.

1.3 How to use library

Open the project library for IRUSeries can be dragged directly the function object to be use at LabVIEW project.

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CHAPTER 2

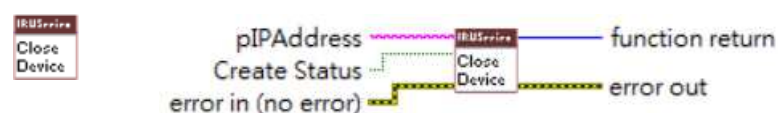
Common VIs for IRUSeries

2.1 IRUSeries_COMMON_CloseDevice.vi






Description

Close the device.

Definition



Parameter

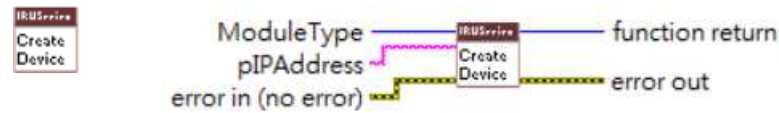
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Create Status	in	Device create status from CreateDevice function.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

2.2 IRUSeries_COMMON_CreateDevice.vi






Description

Create the device.

Definition



Parameter

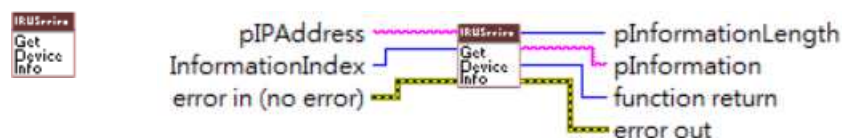
	error in	in	All error conditions that occur before the VI executes.
	ModuleType	in	Device module type.
	pIPAddress	in	Device IP address.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

2.3 IRUSeries_COMMON_GetDeviceInformation.vi








Description

Get device information.

Definition



Parameter

	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	InformationIndex	in	Information index. 0: Model name 1: Manufacture 2: Firmware version
	pInformationLength	out	The gotten data lenth of information.
	pInformation	out	The gotten data information.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

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CHAPTER 3

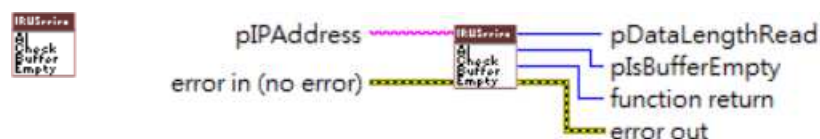
AI VIs for IRUSeries

3.1 IRUSeries_AI_CheckBufferEmpty.vi







Description

Check AI data buffer is empty or not.

Definition



Parameter

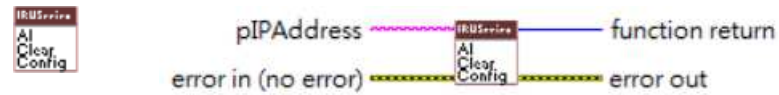
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	pDataLengthRead	in	Length of remaining data.
	pIsBufferEmpty	in	Value shows the buffer is empty or not. 0: Not empty 1: Empty
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.2 IRUSeries_AI_ClearConfig.vi





Description

Clear AI settings.

Definition



Parameter

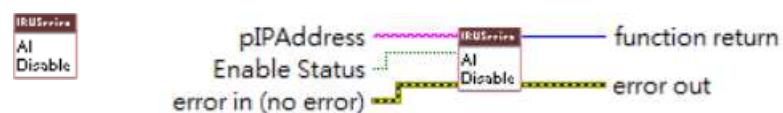
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.3 IRUSeries_AI_Disable.vi






Description

Disable AI.

Definition



Parameter

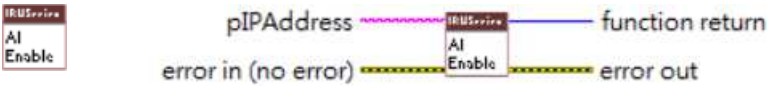
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Enable Status	in	AI enable status from AI_Enable function.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.4 IRUSeries_AI_Enable.vi





Description

Enable AI.

Definition



Parameter

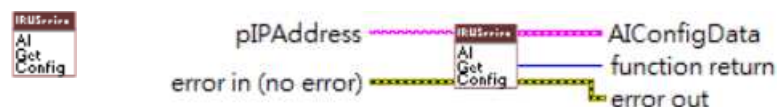
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.5 IRUSeries_AI_GetConfig.vi

















Description

Get AI settings.

Definition



Parameter

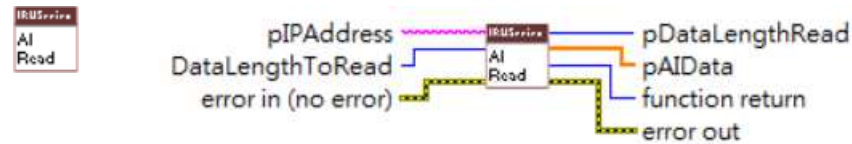
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	AIConfigData	out	The AI config data combined with the parameters.
			Input range. Array size is 32.
			Input type. Array size is 32.
			Trigger level.
			Trigger mode.
			Trigger source.
			Trigger condition.
			Channel 0 ~ 7.
			Channel 8 ~ 15.
			Channel 16 ~ 23.
			Channel 24 ~ 31.
			Sample rate parameter.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.6 IRUSeries_AI_Read.vi








Description

Read AI data.

Definition



Parameter

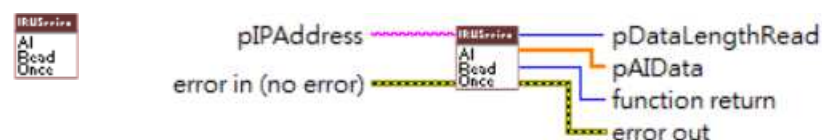
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	DataLengthToRead	in	Size of data array.
	pDataLengthRead	out	Size of read data.
	pAIData	out	Read data array.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.7 IRUSeries_AI_ReadOnce.vi







Description

Read AI current value.

Definition



Parameter

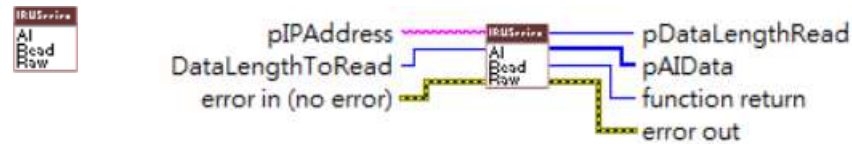
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	pDataLengthRead	out	Size of read data.
	pAIData	out	Read data array.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.8 IRUSeries_AI_ReadRaw.vi








Description

Read AI raw data.

Definition



Parameter

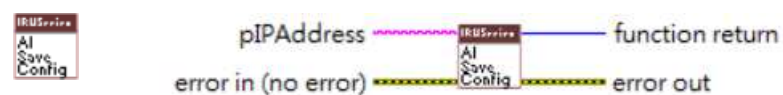
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	DataLengthToRead	in	Size of data array.
	pDataLengthRead	out	Size of read data.
	pAIData	out	Read data array.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.9 IRUSeries_AI_SaveConfig.vi





Description

Save AI settings.

Definition



Parameter

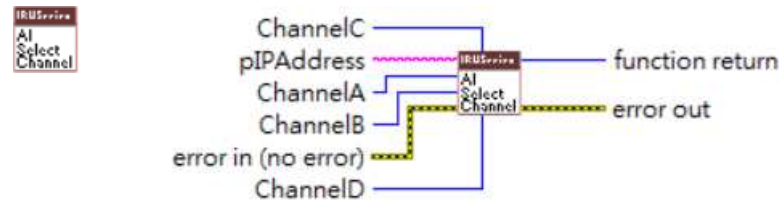
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.10 IRUSeries_AI_SelectChannel.vi









Description

Select AI channels.

Definition



Parameter

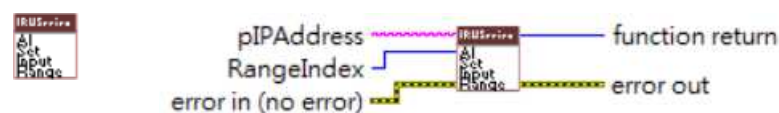
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	ChannelA	in	Bit 0 to 7 indicates Channel 0 to 7. Ex. Select Ch0 & Ch3 = 0x09
	ChannelB	in	Bit 8 to 15 indicates Channel 8 to 15. Ex. Select Ch8 & Ch11 = 0x09
	ChannelC	in	Bit 16 to 23 indicates Channel 16 to 23. Ex. Select Ch16 & Ch19 = 0x09
	ChannelD	in	Bit 24 to 31 indicates Channel 24 to 31. Ex. Select Ch24 & Ch27 = 0x09
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.11 IRUSeries_AI_SetInputRange.vi






Description

Set AI input range.

Definition



Parameter

	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	RangeIndex	in	Input range index. 0: 0V ~ +5V. 1: 0V ~ +10V. 2: -5V ~ +5V. 3: -10V ~ +10V.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.12 IRUSeries_AI_SetSampleRate.vi

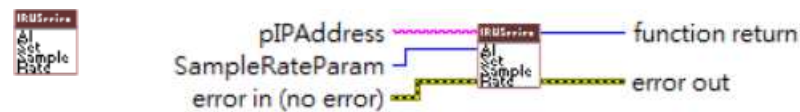
Description

Set AI sample rate.






Note:

This function only supports IRU152.

Definition



Parameter

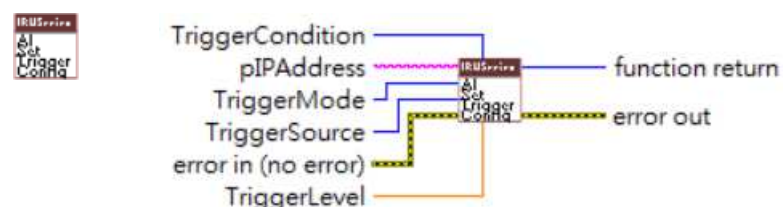
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	SampleRateParam	in	Sample rate parameter. It is the divisor here. The range of value is 354 ~ 17734000. (i.e. 5 Hz ~ 250480 Hz.) Ex: 88670000 Hz / 17734000 = 5 Hz.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

3.13 IRUSeries_AI_SetTriggerConfig.vi









Description

Set AI trigger config.

Definition



Parameter

	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	TriggerMode	in	Trigger mode. 0: Auto run. 1: Post trigger.
	TriggerSource	in	Trigger source. 0: AI0. 1: DI0.
	TriggerCondition	in	Trigger condition. 0: Rising. 1: Falling.
	TriggerLevel	in	Trigger level. The unit is 1 milli voltage.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

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CHAPTER 4

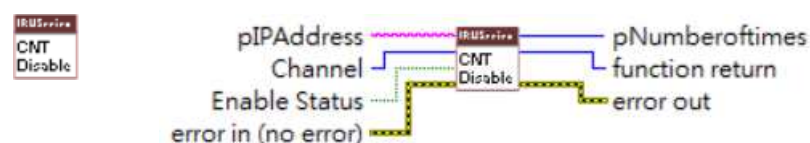
Counter VIs for IRUSeries

4.1 IRUSeries_COUNTER_Disable.vi








Description

Disable counter.

Definition



Parameter

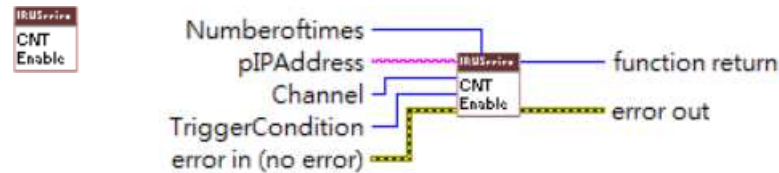
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Channel	in	Channel to disable.
	Enable Status	in	Enable status from COUNTER_Enable function.
	pNumeroftimes	out	Counted number when disabling.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

4.2 IRUSeries_COUNTER_Enable.vi








Description

Enable counter and set parameters.

Definition



Parameter

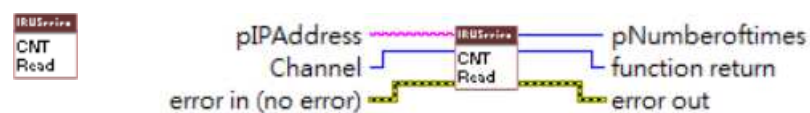
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Channel	in	Select channel to enable. (The value must be 0x01 for IRU152.)
	TriggerCodition	in	Trigger condition setting. 0: Rising. 1: Falling. 2: Both.
	Numberoftimes	in	Number to be counted. The range is 1 ~ 65535.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

4.3 IRUSeries_COUNTER_Read.vi







Description

Get current counted number.

Definition



Parameter

	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Channel	in	Select channel to enable. (The value must be 0x01 for IRU152.)
	pNumeroftimes	out	Current counted number.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

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CHAPTER 5

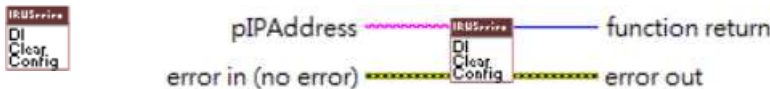
DI VIs for IRUSeries

5.1 IRUSeries_DI_ClearConfig.vi





Description

Clear DI settings.

Definition



Parameter

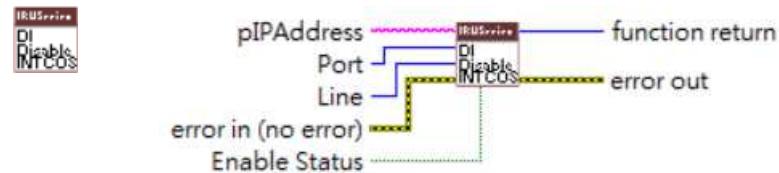
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

5.2 IRUSeries_DI_DisableINTCOS.vi







Description

Disable DI interrupt change of state.

Definition



Parameter

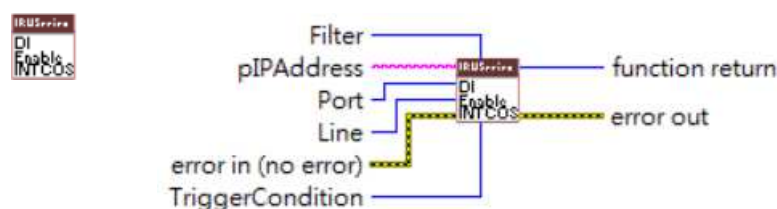
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Port	in	Bit 0 to 7 indicates Port 0 to 7. (The value must be 0x01.)
	Line	in	Bit 0 to 7 indicates Channel 0 to 7. Ex. Select Ch0 & Ch1 = 0x03.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

5.3 IRUSeries_DI_EnableINTCOS.vi









Description

Enable DI interrupt change of state.

Definition



Parameter

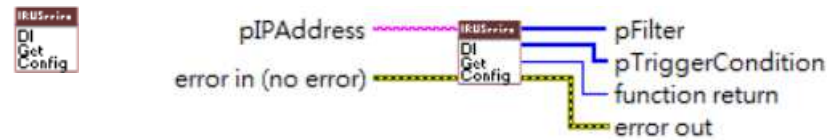
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Port	in	Bit 0 to 7 indicates Port 0 to 7. (The value must be 0x01.)
	Line	in	Bit 0 to 7 indicates Channel 0 to 7. Ex. Select Ch0 & Ch1 = 0x03.
	Filter	in	Filter setting. The range of value is 0 ~ 250.
	TirggerCondition	in	Trigger condition setting. 0: Rising. 1: Falling. 2: Both.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

5.4 IRUSeries_DI_GetConfig.vi







Description

Get DI settings.

Definition



Parameter

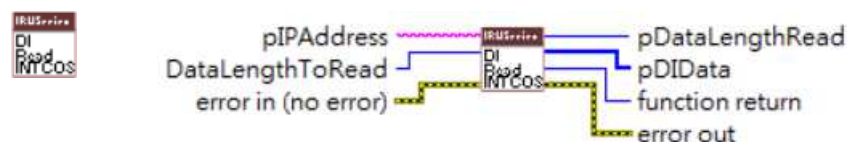
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	pFilter	out	Gotten filter setting. Array size is 32.
	pTriggerCondition	out	Gotten trigger condition. Array size is 32.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

5.5 IRUSeries_DI_ReadINTCOSData.vi







Description

Get DI interrupt change of state data.

Definition



Parameter

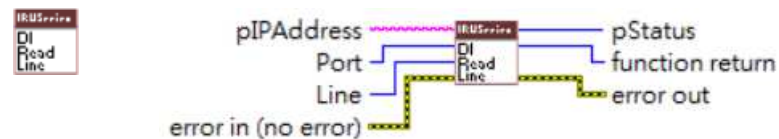
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	DataLengthToRead	in	Size of data to read.
	pDataLengthRead	out	Size of read data.
	pDIData	out	Read data array.
	function return	out	Function error code. (See Appendix A.1)

5.6 IRUSeries_DI_ReadLine.vi








Description

Get DI line status.

Definition



Parameter

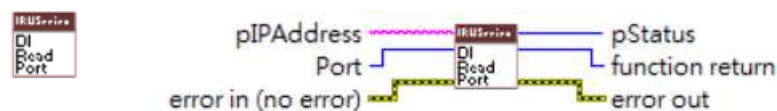
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Port	in	Bit 0 to 7 indicates Port 0 to 7. (The value must be 0x01.)
	Line	in	Bit 0 to 7 indicates Channel 0 to 7. Ex. Select Ch0 & Ch1 = 0x03.
	pStatus	out	Read line status.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

5.7 IRUSeries_DI_ReadPort.vi







Description

Get DI port status.

Definition



Parameter

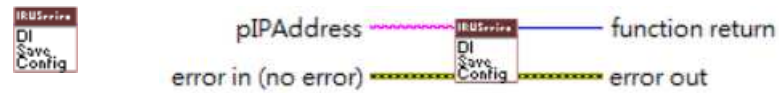
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Port	in	Bit 0 to 7 indicates Port 0 to 7. (The value must be 0x01.)
	pStatus	out	Read port status.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

5.8 IRUSeries_DI_SaveConfig.vi





Description

Save DI settings.

Definition



Parameter

	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

CHAPTER 6

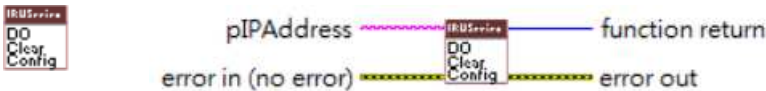
DO VIs for IRUSeries

6.1 IRUSeries_DO_ClearConfig.vi





Description

Clear DO settings.

Definition



Parameter

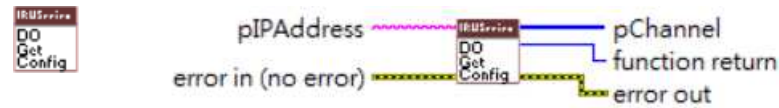
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

6.2 IRUSeries_DO_GetConfig.vi






Description

Get DO settings.

Definition



Parameter

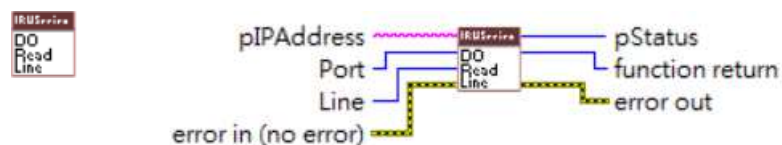
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	pChannel	out	Channel output status. Array size is 32.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

6.3 IRUSeries_DO_ReadLine.vi








Description

Get DO channel status.

Definition



Parameter

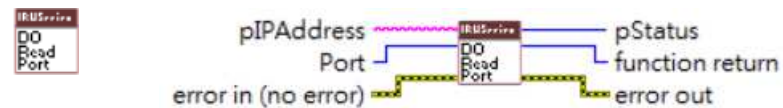
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Port	in	The selected port. (The value must be 0.)
	Line	in	The selected line. (The 0 ~ 7 bits represent the channel 0 ~ 7.)
	pStatus	out	Read line status.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

6.4 IRUSeries_DO_ReadPort.vi







Description

Get DO port status.

Definition



Parameter

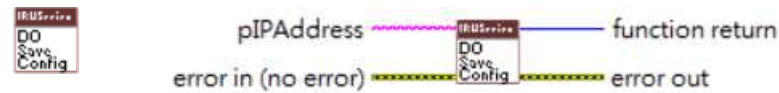
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Port	in	The selected port. (The value must be 0.)
	pStatus	out	Read port status.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

6.5 IRUSeries_DO_SaveConfig.vi





Description

Save DO settings.

Definition



Parameter

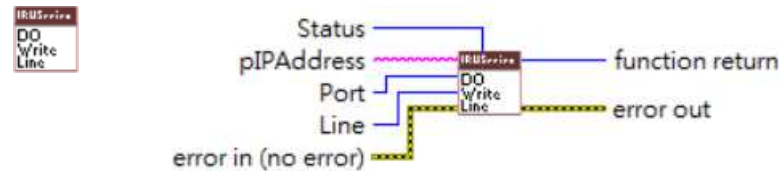
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

6.6 IRUSeries_DO_WriteLine.vi








Description

Set DO channel output status.

Definition



Parameter

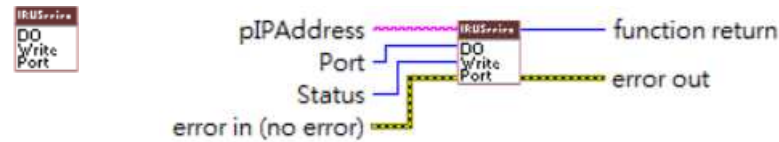
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Port	in	The selected port. (The value must be 0.)
	Line	in	The selected line. (The 0 ~ 7 bits represent the channel 0 ~ 7.)
	Status	in	The status to be set. (The 0 ~ 7 bits represent the channel 0 ~ 7.)
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

6.7 IRUSeries_DO_WritePort.vi







Description

Set DO port output status.

Definition



Parameter

	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Port	in	The selected port. (The value must be 0.)
	Status	in	The status to be set. (The 0 ~ 7 bits represent the channel 0 ~ 7.)
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

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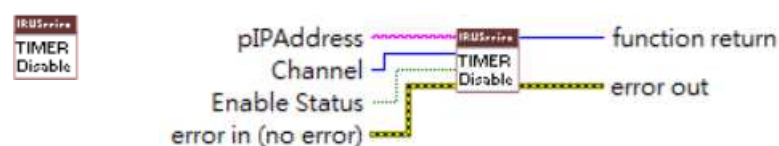
Timer VIs for IRUSeries

7.1 IRUSeries_TIMER_Disable.vi







Description

Disable timer.

Definition



Parameter

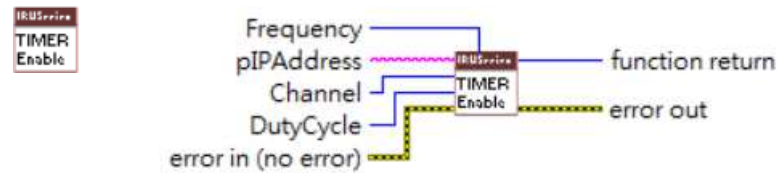
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Channel	in	The selected channel. (The 0 ~ 7 bits represent the channel 0 ~ 7.)
	Enable Status	in	The timer enable status.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

7.2 IRUSeries_TIMER_Enable.vi








Description

Enable timer and set parameters.

Definition



Parameter

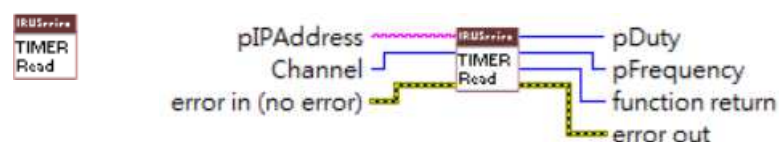
	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Channel	in	The selected channel. (The value must be 0x01.)
	DutyCycle	in	The timer duty cycle. The range is 1 to 99 (%).
	Frequency	in	The timer frequency. The range is 1 ~ 500 (Hz).
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

7.3 IRUSeries_TIMER_Read.vi








Description

Get the timer settings.

Definition



Parameter

	error in	in	All error conditions that occur before the VI executes.
	pIPAddress	in	Device IP address.
	Channel	in	Channel to enable.
	pDuty	out	The set duty value.
	pFrequency	out	The set frequency value.
	error out	out	Contains error information.
	function return	out	Function error code. (See Appendix A.1)

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Appendix A

A.1 Function error code

Name	Code	Description
IRUSeries_LV_ERROR_NONE	0	No error
IRUSeries_LV_ERROR_LIBRARY	500001	Library Null Pointer
IRUSeries_LV_ERROR_CREATEDEVICE	510003	Create device error
IRUSeries_LV_ERROR_CLOSEDEVICE	510004	Close device error
IRUSeries_LV_ERROR_GETDEVICEINFO	510006	Get device information error
IRUSeries_LV_ERROR_AI_ENABLE	520001	AI enable error
IRUSeries_LV_ERROR_AI_DISABLE	520002	AI disable error
IRUSeries_LV_ERROR_AI_READ	520004	AI read data error
IRUSeries_LV_ERROR_AI_READRAW	520005	AI read raw data error
IRUSeries_LV_ERROR_AI_READONCE	520006	AI read value once error
IRUSeries_LV_ERROR_AI_CHKBUFFEREMPTY	520007	AI check buffer empty error
IRUSeries_LV_ERROR_AI_SELECTCHANNEL	520008	AI select channel error
IRUSeries_LV_ERROR_AI_SETSAMPLERATE	520010	AI set sample rate error
IRUSeries_LV_ERROR_AI_SETINPUTRANGE	520012	AI set input range error
IRUSeries_LV_ERROR_AI_SETTRIGGERCONFIG	520017	AI set trigger config error
IRUSeries_LV_ERROR_AI_SAVECONFIG	520018	AI save config error
IRUSeries_LV_ERROR_AI_CLEARCONFIG	520019	AI clear config error
IRUSeries_LV_ERROR_AI_GETCONFIG	520020	AI get config error
IRUSeries_LV_ERROR_DI_ENABLE	530005	DI enable error
IRUSeries_LV_ERROR_DI_DISABLE	530006	DI disable error
IRUSeries_LV_ERROR_DI_READ	530007	DI read data error
IRUSeries_LV_ERROR_DI_READPORT	530008	DI read port data error
IRUSeries_LV_ERROR_DI_READLINE	530009	DI read line data error
IRUSeries_LV_ERROR_DI_SAVECONFIG	530010	DI save config error
IRUSeries_LV_ERROR_DI_CLEARCONFIG	530011	DI clear config error
IRUSeries_LV_ERROR_DI_GETCONFIG	530012	DI get config error
IRUSeries_LV_ERROR_DO_WRITEPORT	540004	DO set port status error

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IRU Series_LV_ERROR_DO_READPORT	540005	DO read port status error
IRU Series_LV_ERROR_DO_WRITELINE	540006	DO set line status error
IRU Series_LV_ERROR_DO_READLINE	540007	DO read line status error
IRU Series_LV_ERROR_DO_SAVECONFIG	540008	DO save config error
IRU Series_LV_ERROR_DO_CLEARCONFIG	540009	DO clear config error
IRU Series_LV_ERROR_DO_GETCONFIG	540010	DO get config error
IRU Series_LV_ERROR_COUNTER_ENABLE	550004	Counter enable error
IRU Series_LV_ERROR_COUNTER_DISABLE	550005	Counter disable error
IRU Series_LV_ERROR_COUNTER_GETCOUNTER	550006	Counter get current number error
IRU Series_LV_ERROR_PWM_ENABLE	560004	Timer enable error
IRU Series_LV_ERROR_PWM_DISABLE	560005	Timer disable error
IRU Series_LV_ERROR_PWM_GETSTATUS	560006	Timer get setting error