

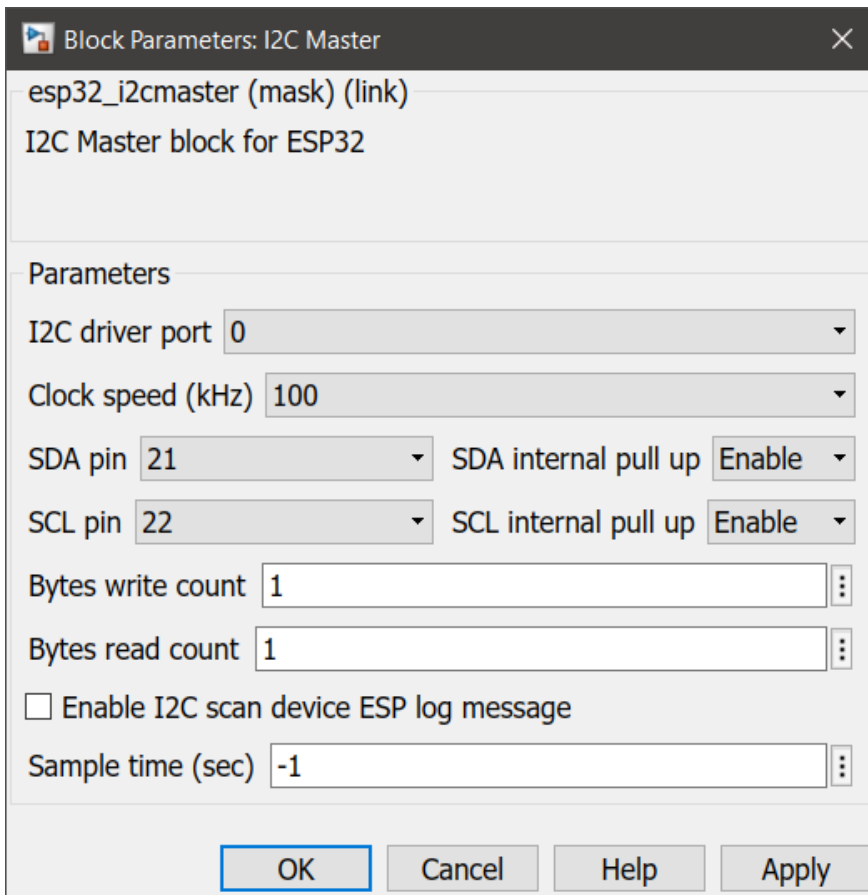
I2C Block

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How this block appears in a Simulink model?

[400](#)

What can be configured?



Configuration Parameter	Selectable Option/Value	Description
I2C driver port	0--1	Select driver port
Clock Frequency (kHz)	100--400	Specify clock speed of selected I2C module configuration.
SDA pin		Select pin for I2C SDA
SDA internal pullup		Enable/disable internal pullup
SCL pin		Select pin for I2C SCL
SCL internal pullup		Enable/disable internal pullup
Bytes write count		Specify number of bytes to write to I2C in a transaction.
Bytes read count		Specify number of bytes to read from I2C in a transaction.
Enable I2C scan device ESP log message.		Enable this to scan all i2c devices connected and display their salve addresses. To use this, feature a serial monitor is required.
Sample time (sec)	-1 (inherited) or specify	Specify sample time for the block

When to use this block?

This block can be used to communicate with a device using I2C protocol

Demo

[I2C demo](#)

Previous : [SPI Block](#)

Next : [ADC Block](#)

Files

appearance.PNG	20.3 KB	20 Oct 2020	Vasitha Tilakumara (၁၈၅)
mask.PNG	46.3 KB	20 Oct 2020	Vasitha Tilakumara (၁၈၅)