

# Is there working I2C library for h8...

---



todor 2 posts since

Feb 8, 2010

Hello,

I am using the h83678 controller, and I simply can't make the internal I2C module to work. I've searched almost everywhere but I can't find library that I can include in my IAR embedded workbench project. Does anyone have such library or a working code?

Tags: i2c, h83678



CRADLE 8 posts since

Jul 29, 2009 1. **Re: Is there working I2C library for h8 series** Feb 8, 2010 7:13 AM

<http://eu.renesas.com/request?>

[LANGUAGE\\_CD=EN&LAYER\\_ID=&SCREEN\\_ID=ViewUsrFrameApnDocumentSearch&FUNCTION\\_CD=bus&DOC\\_TYPE=Application%20Notes&FUNCTION\\_FLG=1&FUNC\\_OR\\_APP=F](http://eu.renesas.com/request?LANGUAGE_CD=EN&LAYER_ID=&SCREEN_ID=ViewUsrFrameApnDocumentSearch&FUNCTION_CD=bus&DOC_TYPE=Application%20Notes&FUNCTION_FLG=1&FUNC_OR_APP=F)

<http://eu.renesas.com/request>

Are you looking here?



ckgrrier 840 posts since

Mar 16, 2009 2. **Re: Is there working I2C library for h8 series** Feb 10, 2010 12:11 PM

Since you use the IAR compiler, you'll need a library compiled with that tool.

However, the HW manual gives a very good description of the Master and Slave operations for Transmit and Receive. I2C can be picky with timing of transitions, so if you have access to a logic analyzer, it can help.

Is there working I2C library for h8...

Look at the I2C Bus section of the manual, and make sure your code follows the flowcharts. Make sure you know if you are using the Clocked Synchronous or the I2C Bus format.



[todor](#) 2 posts since

Feb 8, 2010 3. **Re: Is there working I2C library for h8 series** Feb 12, 2010 12:20 AM

I've made my own functions according to the manual, but they are not working very well. Sometimes I miss some bytes. I guess that is because I am using it to control Cypress - capsense chip to make touch-sense keyboard which has very strange timings. If someone with h83678 or similar microcontroller has working I2C functions please post it here so I can see where I am wrong.



[raut\\_onkar](#) 1 posts since

Jun 18, 2010 4. **Re: Is there working I2C library for h8 series** Jun 18, 2010 7:21 PM

Hi,

I've made this piece of code put up on my website. Can work with most devices. It's pretty basic and is made with HEW. Haven't tested with IAR or other IDEs. Download freely from <http://sites.google.com/site/rautonkar/projects>. It's still under test, so send bug reports if any.

Regards,

Onkar Raut,

Graduate Student,

University of North Carolina at Charlotte.