

## Re: PIC or Freescale HC08 ??

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2006-03/msg03857.html>

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- *From:* Tim Wescott <[tim@xxxxxxxxxxxxxxxxxxxx](mailto:tim@xxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Mon, 27 Mar 2006 08:16:26 -0800
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r.laury@xxxxxxxxxxxx wrote:

Hi Group:

I've got a project that I'm contemplating that needs:

- To read a keypad with 20 switches.
- Control 7 digits of 7 seven segment displays.
- Generate pulses for a small stepper motor. (full step and micro step)
- Possible control of a brushless servo motor with encoder feedback.
- Monitor a few simple sensors.
- A few hundred bytes of RAM is enough.
- Program size with lookup tables ect, should be under 4-6K.
- Flash would be nice.

I've never worked with the PIC and looking at their product line up there's just too many to chose from.

I have worked with the Motorola stuff (HC05) but they are not making anymore HC05 parts. My question is, What PIC would you use to do the above. Or maybe use several PIC's to get the job done?

Or would you just go for one of the bigger HC08's?

Thanks!

Any input appreciated.

RonL

Consider also the AVR series from Atmel, and any one of the bazillion 8051 derivatives out there.

To wade through the mess of different chip styles you can do what I do:

- list your requirements in terms of I/O pins, PMW outputs, ADC inputs (if you need it) and whatever else you need
- sort through your list of microprocessors to get viable candidates
- choose one based on price, your attitude toward the vendor, and any other 'soft' considerations you may have. I always look for a pin-compatible upgrade, unless I know that what I've chosen is severe overkill (in case I look for a lower-price pin-compatible 'downgrade').

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