Chapter 8

Digital and Analog Interfacing Methods



Flash Memory Interface

Microcontrollers-... 2nd Ed. Raj Kamal Pearson Education

Flash Exemplary Uses

Saving-• user-defined program data • an ECG machine captured ECG waveform data • in a process with multiple stages, the status that the previous stage(s) successfully completed

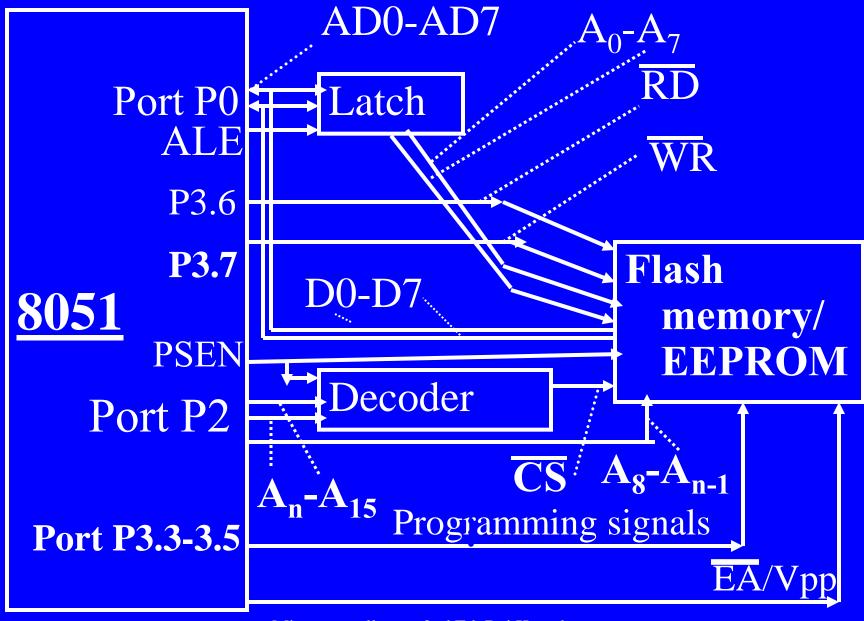
Flash Interfacing

•Address lines A_0 - A_7 connect the flash through a latch and A_8 - A_{n-1} directly and A_n to A_{15} remaining lines through decoder to \overline{CS} pin at flash

Flash Interfacing

•Port P0 pins connect D0-D7 inputs of the flash

•Vpp pin connects Vpp of the flash and to a + 5V or + 12V supply, if flash needs a high voltage pulse



Summary

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We learnt

Flash

- Flash interfaces similar to a ROM
- Erasing is by writing 1s at the byte(s)
- Writing is always on the erased byte (s)
- A programming pulse is present when erasing or writing. Programming signals sent using P4.3-P3.5 pins in the interface
- Programming voltage sent using EA/Vpp pin in the 8051

End of Lesson 8

Flash Memory Interface