



PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE  
ESCUELA DE INGENIERÍA  
DEPARTAMENTO DE CIENCIAS DE LA COMPUTACIÓN

IIC2342 Arquitectura de Computadores (II/2009)

## Material Complementario

### Tiendas en Santiago

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Las más populares y otras:

|            |   |
|------------|---|
| AVANTEC    | <a href="http://www.avantec.cl/">http://www.avantec.cl/</a>                 |
| Casa Keim  | <a href="http://www.casakeim.cl/">http://www.casakeim.cl/</a>               |
| Casa Royal | <a href="http://www.casaroyal.cl/">http://www.casaroyal.cl/</a>             |
| Digicom    | <a href="http://www.digicom.cl/">http://www.digicom.cl/</a>                 |
| Olimex     | <a href="http://www.olimex.cl/index.php">http://www.olimex.cl/index.php</a> |
| RS         | <a href="http://cl.rs-online.com/web/">http://cl.rs-online.com/web/</a>     |
| Victronics | <a href="http://www.victronics.cl/">http://www.victronics.cl/</a>           |

### Tiendas en USA con despacho a Chile

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|--------------------|---|
| Allied Electronics | <a href="http://www.alliedelec.com/">http://www.alliedelec.com/</a> |
| Avnet              | <a href="http://www.avnet.com/">http://www.avnet.com/</a>           |
| Digikey            | <a href="http://www.digikey.com/">http://www.digikey.com/</a>       |
| Mouser Electronics | <a href="http://www.mouser.com/">http://www.mouser.com/</a>         |
| Newark             | <a href="http://www.newark.com/">http://www.newark.com/</a>         |

### Siglas

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Dado lo extensos que son los términos tecnológicos relacionados con los sistemas embebidos, se utilizan siglas casi siempre. La siguiente es una pequeña introducción a las que se toparán cuando trabajen en el proyecto. Cuando aparezca, intenten entender su significado pues éste será fundamental.

- $\mu$ C: Micro-Controller
- ADC: Analog to Digital Converter
- ASIC: Application-Specific IC
- BASIC: Beginner's All-purpose Symbolic Instruction Code
- CPU: Central Processing Unit

- DAC: Digital to Analog Converter
- DIO: Digital Input / Output
- DIP = PDIP = DIL: Dual In-line Package
- DSP: Digital Signal Processor
- DPAK: Discrete Packaging
- EEPROM = E<sup>2</sup>PROM: Electrically EPROM
- EPROM: Erasable PROM
- FCC: Federal Communications Commission
- FPGA: Field-Programmable Gate Array
- HDL: Hardware Description Language
- I2C = I<sup>2</sup>C: Inter-IC
- IC: Integrated Circuit
- IEEE: Institute of Electrical and Electronics Engineers
- LCD: Liquid Crystal Display
- LED: Light-Emitting Diode
- MCU: Micro-Controller Unit
- PATA: Parallel ATA
- PCB: Printed Circuit Board
- PIC: Peripheral Interface Controller or Programmable Intelligent Computer
- PDF: Portable Document Format
- PROM: Programmable ROM
- PWM: Pulse-Width Modulation
- QFP: Quad Flat Package
- RAM: Random Access Memory
- RISC: Reduced Instruction Set Computer
- RoHS: Restriction of Hazardous Substances
- ROM: Read-Only Memory
- RS-xx: Recommended Standard xx

- SATA: Serial ATA
- SMC = SMD: Surface Mounted Components
- SoC: System-on-a-Chip
- SOIC: Small-Outline IC
- SOP: Small-Outline Package
- SPI: Serial Peripheral Interface bus
- USART: Universal Synchronous Asynchronous Receiver and Transmitter
- USB: Universal Serial Bus

### Sitios web

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Todas las siglas las pueden buscar en Wikipedia, preferentemente en inglés, por la calidad de la información. Otra información interesante en:

- [http://en.wikipedia.org/wiki/List\\_of\\_computer\\_standards](http://en.wikipedia.org/wiki/List_of_computer_standards)
- [http://en.wikipedia.org/wiki/Serial\\_communication](http://en.wikipedia.org/wiki/Serial_communication)
- [http://en.wikipedia.org/wiki/Parallel\\_communication](http://en.wikipedia.org/wiki/Parallel_communication)
- [http://en.wikipedia.org/wiki/Asynchronous\\_serial\\_communication](http://en.wikipedia.org/wiki/Asynchronous_serial_communication)
- <http://c2.com/cgi/wiki?SerialPorts>
- [http://en.wikipedia.org/wiki/Assembly\\_language](http://en.wikipedia.org/wiki/Assembly_language)
- [http://en.wikibooks.org/wiki/Embedded\\_Systems](http://en.wikibooks.org/wiki/Embedded_Systems)
- [http://en.wikibooks.org/wiki/Embedded\\_Systems/PIC\\_Microcontroller](http://en.wikibooks.org/wiki/Embedded_Systems/PIC_Microcontroller)

## Fabricantes de semiconductores

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- AMD
- Analog Devices
- Atmel
- Fairchild
- Freescale
- Fujitsu
- Infineon Technologies
- Intel
- Microchip
- Motorola
- National Semiconductor
- NXP
- Philips
- Samsung
- Sharp
- STMicroelectronics
- Texas Instruments
- Toshiba