ARM Processors

- The ARM line of processors are the product of research and development by ARM which licenses its intellectual property to others.
- Companies like Atmel, Intel, Raytheon, Qualcomm, Samsung and hundreds of others build microcontrollers and other products around the ARM cores.
Atmel AT91MF40816

- Internal RAM - 8K bytes
- Internal Flash EEPROM - 2M bytes
- Serial I/O - 2 x UART, 2 x SPI
- 3 - timers (16-bit)
- Bus frequency 33 MHz
- 0 A/D channels
- 0 PWM channels
- 54 IO Pins
Atmel AT91MF40816 / - / continued

- Power requirements - 165 mW at 33 MHz
- Mechanical - 144 pin packages
- Product family - extensive
- Processing unit - 32-bit
- 15 general purpose registers
- Instruction Set - 19 basic instructions
- Addressing Modes - direct, indirect, indexed, relative and combinations
- Price $43