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ISP flash memory with read-while-write capabilities, 1024B EEPROM, 2KB SRAM, 23 general purpose I/O lines, 32 general purpose working registers, three flexible timer/counters with compare modes, internal and external interrupts, serial programmable USART, a byte-oriented 2-wire serial interface, SPI serial ... ATMEGA328P-AU - 8 Bit MCU, Low Power High Performance, AVR ... The Arduino Mega 2560 is a microcontroller board based on the ATmega2560. It has 54 digital input/output pins (of which 15 can be used as PWM outputs), 16 analog inputs, 4 UARTs (hardware serial ports), a 16 MHz crystal oscillator, a USB connection, a power jack, an ICSP header, and a reset button. Arduino Mega 2560 Rev3 | Arduino Official Store Atmel-ICE is a powerful development tool for debugging and programming ARM® Cortex®-M based SAM and AVR microcontrollers with on-chip debug capability. Atmel-ICE supports: Programming and on-chip debugging of all AVR 32-bit MCUs on both JTAG and aWire interfaces ATmega8 - 8-bit AVR Microcontrollers Digital Learning & Online Textbooks - Cengage Digital Learning & Online Textbooks - Cengage Offering comprehensive, cutting-edge coverage, THE ATMEL AVR MICROCONTROLLER&#58; MEGA AND XMEGA IN ASSEMBLY AND C delivers a systematic introduction to the popular Atmel 8-bit AVR microcontroller with an emphasis on the MEGA and XMEGA subfamilies. It begins with a concise and complete... The Atmel AVR Microcontroller: MEGA and XMEGA in Assembly ... Offering comprehensive, cutting-edge coverage, THE ATMEL AVR MICROCONTROLLER: MEGA AND XMEGA IN ASSEMBLY AND C delivers a systematic introduction to the popular Atmel 8-bit AVR microcontroller with an emphasis on the MEGA and XMEGA subfamilies. The Atmel AVR Microcontroller : MEGA and

XMEGA in Assembly ...Atmel Corporation was a designer and manufacturer of semiconductors before being acquired by Microchip Technology in 2016. It was founded in 1984. The company focuses on embedded systems built around microcontrollers. Its products include microcontrollers (8-bit AVR, 32-bit AVR, 32-bit ARM-based, automotive grade, and 8-bit Intel 8051 derivatives) radio frequency (RF) devices including Wi-Fi ...Atmel - Wikipedia Atmel AVR. Most versions of Arduino use the AVR line of microcontrollers from Atmel (now owned by Microchip Technology). This can make it easier to transition from an Arduino to an Atmel AVR microcontroller. Atmel AVR microcontrollers are available in both 8-bit and 32-bit versions. Figure 6 - Atmel AVR microcontroller

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*Atmel AVR instruction set - Wikipedia*

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Figure 6 - Atmel AVR microcontroller

### **ATmega2560 - 8-bit AVR Microcontrollers**

Atmel provides a development environment for their 8-bit AVR and 32-bit ARM Cortex-M based microcontrollers: AVR Studio (older) and Atmel Studio (newer). IDE. The Arduino integrated development environment (IDE) is a cross-platform application (for Windows, macOS, and Linux) that is written in the programming language Java.

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