ATMEGA8A-AU   MICROCHIP

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ATMEGA8A-AU MICROCHIP 80000PCS 2021+
        MICROCHIP

The ATMEGA8A-AU is a 8-bit high-performance low-power AVR RISC-based Microcontroller combines 8kB ISP flash memory with read-while-write capabilities, 512B EEPROM, 1kB 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 Two-Wire serial interface, 6-channel 10-bit A/D converter, programmable watchdog timer with internal oscillator, SPI serial port and five software selectable power saving modes. The device operates between 2.7 to 5.5V. By executing powerful instructions in a single clock cycle, the device achieves throughputs approaching 1 MIPS per MHz, balancing power consumption and processing speed.

Advanced RISC architecture - On-chip 2-cycle multiplier

High endurance, non-volatile memory segments

QTouch library support - Capacitive touch buttons, sliders and wheels

Peripheral features - Byte-oriented Two-Wire serial interface

Power-on reset (POR) and programmable brown-out detection

Internal calibrated RC oscillator

External and internal interrupt sources

Five sleep modes - Idle, ADC noise reduction, power-save, power-down and standby

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