

MCU-Application Specific 8 bit, AVR MEGA, 16 MHz, 1 KB RAM/32 KB Program, 2.7V-5.5Vin, TQFP-32

Manufacturers	Microchip Technology, Inc
Package/Case	TQFP-32
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ATMEGA32U2-AU or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The high-performance, low-power Microchip 8-bit AVR RISC-based microcontroller combines 32KB ISP flash memory with read-while-write capabilities, 1KB EEPROM, 1KB SRAM, 22 general purpose I/O lines, 32 general purpose working registers, two flexible timer/counters with compare modes and PWM, USART, programmable watchdog timer with internal oscillator, SPI serial port, debugWIRE interface for on-chip debugging and programming, and five software selectable power saving modes. The device operates between 2.7-5.5 volts.

By executing powerful instructions in a single clock cycle, the device achieves throughputs approaching 1 MIPS per MHz, balancing power consumption and processing speed.

Features

USB 2.0 Full-speed Device Module with Interrupt on Transfer Completion

Complies fully with Universal Serial Bus Specification REV 2.0

48 MHz PLL for Full-speed Bus Operation : data transfer rates at 12 Mbit/s

Fully independant 176 bytes USB DPRAM for endpoint memory allocation

Endpoint 0 for Control Transfers: from 8 up to 64-bytes

4 Programmable Endpoints:

IN or Out Directions

Bulk, Interrupt and Isochronous Transfers

Programmable maximum packet size from 8 to 64 bytes

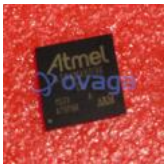
Programmable single or double buffer

Suspend/Resume Interrupts

Microcontroller reset on USB Bus Reset without detach

USB Bus Disconnection on Microcontroller Request

Related Products



[ATSAMA5D36A-CU](#)

Microchip Technology, Inc
LFBGA-324



[ATMEGA32M1-AU](#)

Microchip Technology, Inc
TQFP-32



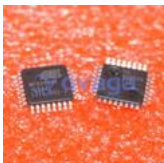
[ATXMEGA128D3-AU](#)

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VQFN-32



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SOT-23-6