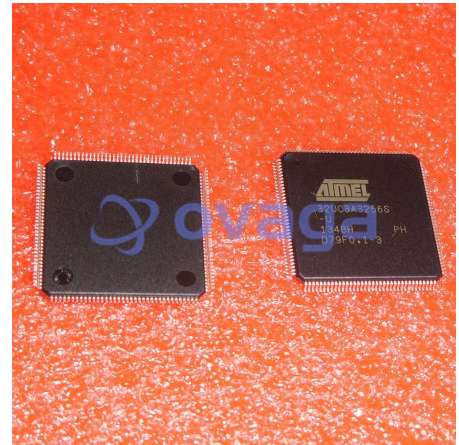


MCU 32Bit AT32 AVR RISC 256KB Flash 1.85V/3.3V 144Pin LQFP Tray

Manufacturers	Microchip Technology, Inc
Package/Case	LQFP-144
Product Type	Embedded Processors & Controllers
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for AT32UC3A3256S-ALUT or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

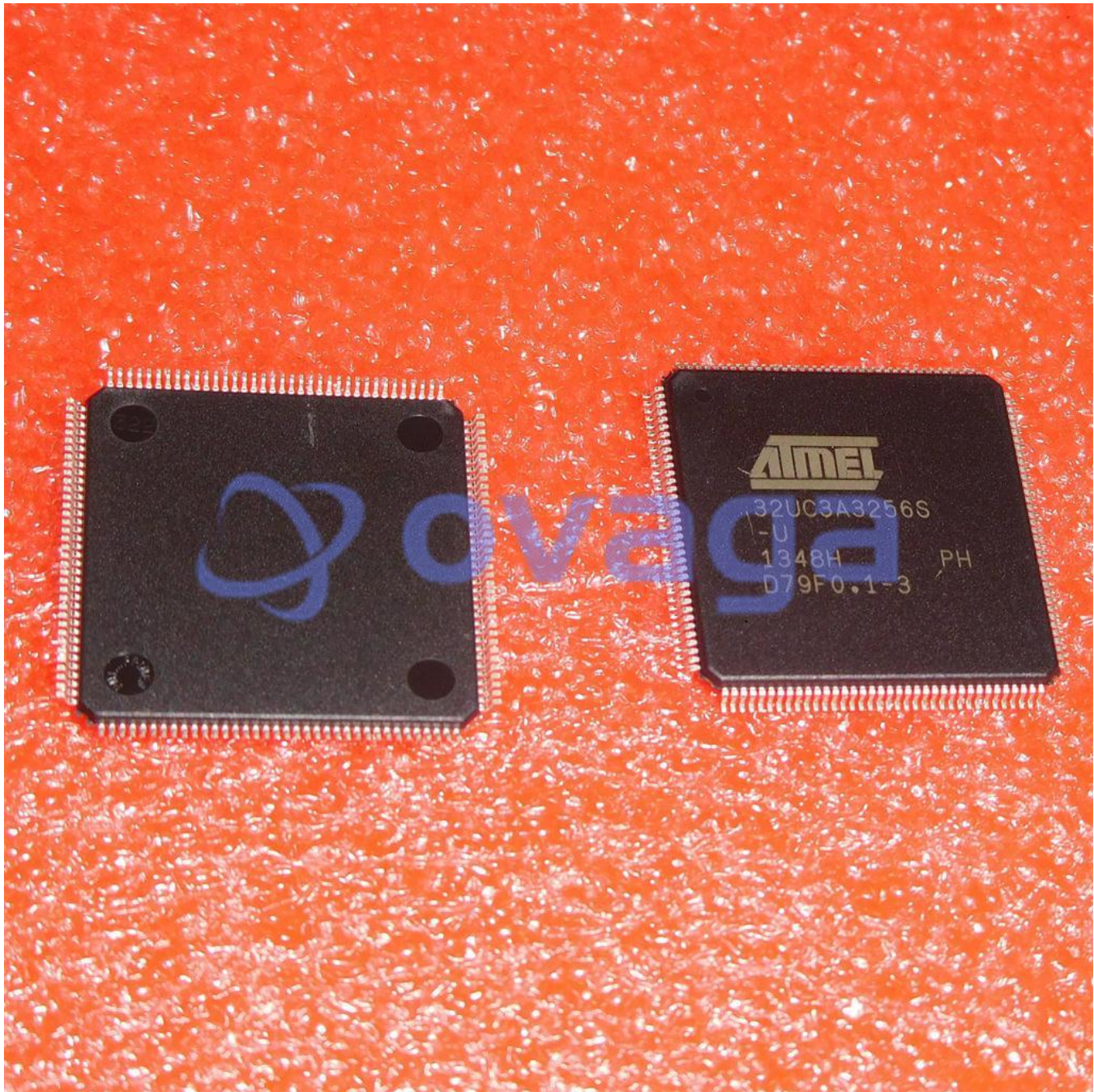
General Description

A complete system-on-chip 32-bit AVR microcontroller. It is designed for cost-sensitive embedded applications that require low power consumption, high code density and high performance.

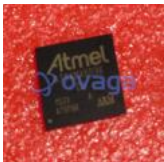
The microprocessor's Memory Protection Unit (MPU) and fast, flexible interrupt controller support the latest real-time operating systems. Higher computation capabilities are achievable using a rich set of DSP instructions. The device incorporates on-chip flash and SRAM memories for secure and fast access. 64 KBytes of SRAM are directly coupled to the 32-bit AVR UC3 for performance optimization. Two blocks of 32 Kbytes SRAM are independently attached to the high speed bus matrix for real ping-pong management.

The microcontroller achieves exceptionally high data throughput by combining the multi-layered 32-bit AVR databus, 128 KB on-chip SRAM with triple high speed interfaces, multi-channel peripheral, memory-to-memory DMA controller, high-speed USB embedded host, SD/SDIO card, MLC NAND flash with ECC, and SDRAM interfaces.

This device features 256KB internal high-speed flash and an AES crypto module, capable of 128 to 256-bit AES encryption at speeds of up to 22.8MBytes.



Related Products



[ATSAMA5D36A-CU](#)

Microchip Technology, Inc
LFBGA-324



[ATMEGA32M1-AU](#)

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TQFP-32



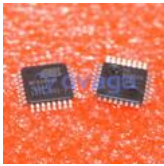
[ATXMEGA128D3-AU](#)

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[ATTINY2313V-10SU](#)

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SOT-23-6