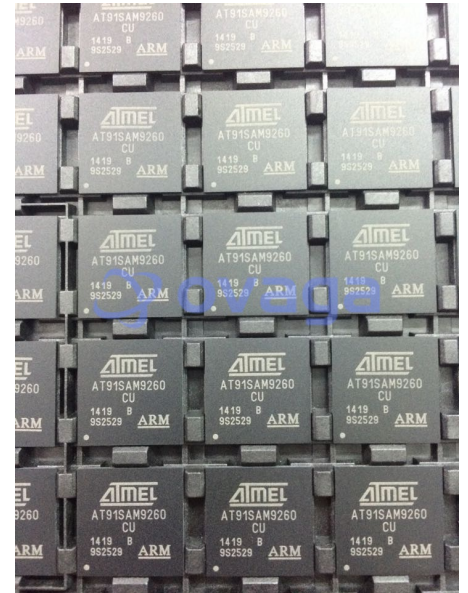


ARM MCU, ARM Thumb, SAM9 Family AT91SAM92 Series Microcontrollers, ARM9, 32bit, 210 MHz, 32 KB

Manufacturers	Microchip Technology, Inc
Package/Case	LFBGA-217
Product Type	Embedded Processors & Controllers
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for AT91SAM9260B-CU or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ARM®-based SAM9260 running up to 210 MHz embeds Full Speed USB host and device interfaces, a 10/100 Ethernet MAC and an image sensor interface, as well as standard peripherals such as a Multimedia Card Interface (MCI), I2S, USARTs, master/slave SPIs, 16-bit Timers, a TWI and four-channel 10-bit ADC. The external bus interface features controllers for SDRAM and static memories including NAND flash and CompactFlash. The SAM9260 is available in 217-ball LFBGA and 208-pin QFP packages.

Features

Core:

ARM926 ARM Thumb Processor running up to 210 MHz

8-Kbyte Data Cache, 8-Kbyte Instruction Cache

Memory Management Unit

Memories:

8 Kbytes of SRAM, single-cycle access

32 Kbytes of ROM embedding standard bootstrap

32-bit External Bus Interface (EBI) supporting SDRAM, LPSPDRAM, Static Memory, Burst Flash, Glueless Connection to CompactFlash® and NAND Flash/SmartMedia® with 1-bit ECC

Peripherals:

Enhanced Clock Generator and Power Management Controller

On-chip Oscillator with Two PLLs

Very Slow Clock Operating Mode and Software Power Optimization Capabilities

Two Programmable External Clock Signals

System Timer Including Periodic Interrupt, Watchdog and Second Counter

Real-time Clock with Alarm Interrupt

Debug Unit, Two-wire UART and Support for Debug Communication Channel

Advanced Interrupt Controller with 8-level Priority, Individually Maskable Vectored Interrupt Sources, Spurious Interrupt Protected

Seven External Interrupt Sources and One Fast Interrupt Source

Three 32-bit PIO Controllers with Up to 96 Programmable I/O Lines, Input Change Interrupt and Open-drain Capability on Each Line

25-channel Peripheral DMA Controller (PDC)

ITU-R BT. 601/656 Image Sensor Interface (ISI)

Ethernet MAC 10/100 Base-T:

Media Independent Interface (MII) or Reduced Media Independent Interface (RMII)

Integrated 28-byte FIFOs and Dedicated DMA Channels for Receive and Transmit

USB 2.0 Full Speed (12Mbits per second) Host Double Port:

Dual On-chip Transceivers (Single Port Only on 208-lead PQFP Package)

Integrated FIFOs and Dedicated DMA Channels

USB 2.0 Full Speed (12Mbits per second) Device Port:

On-chip Transceiver, 2-Kbyte Configurable Integrated FIFOs

Multimedia Card Interface (MCI):

Automatic Protocol Control and Fast Automatic Data Transfers

MMC and SD Memory Card-compliant, Supports Up to Two SD Memory Cards

Synchronous Serial Controller (SSC):

Independent Clock and Frame Sync Signals for Each Receiver and Transmitter

I2S Analog Interface Support, Time Division Multiplex Support

High-speed Continuous Data Stream Capabilities with 32-bit Data Transfer

Four Universal Synchronous/Asynchronous Receiver/Transmitters (USART):

Support for ISO7816 T0/T1 Smart Card

Hardware Handshaking

RS485 Support, IrDA® Up To 115 Kbps

Full Modem Control Lines on USART1

Two Master/Slave Serial Peripheral Interface (SPI):

8 to 16-bit Programmable Data Length

4 External Peripheral Chip Selects

Two 3-channel, 16-bit Timer/Counters (TC):

Three External Clock Inputs

Two Multi-purpose I/O Pins per Channel

Double PWM Generation, Capture/Waveform Mode, Up/Down Capability

Two-wire Interface (TWI):

Master Mode Support, All 2-wire Atmel EEPROMs Supported

IEEE® 1149.1 JTAG Boundary Scan on All Digital Pins

4-Channel 10-bit ADC

Power Supplies:

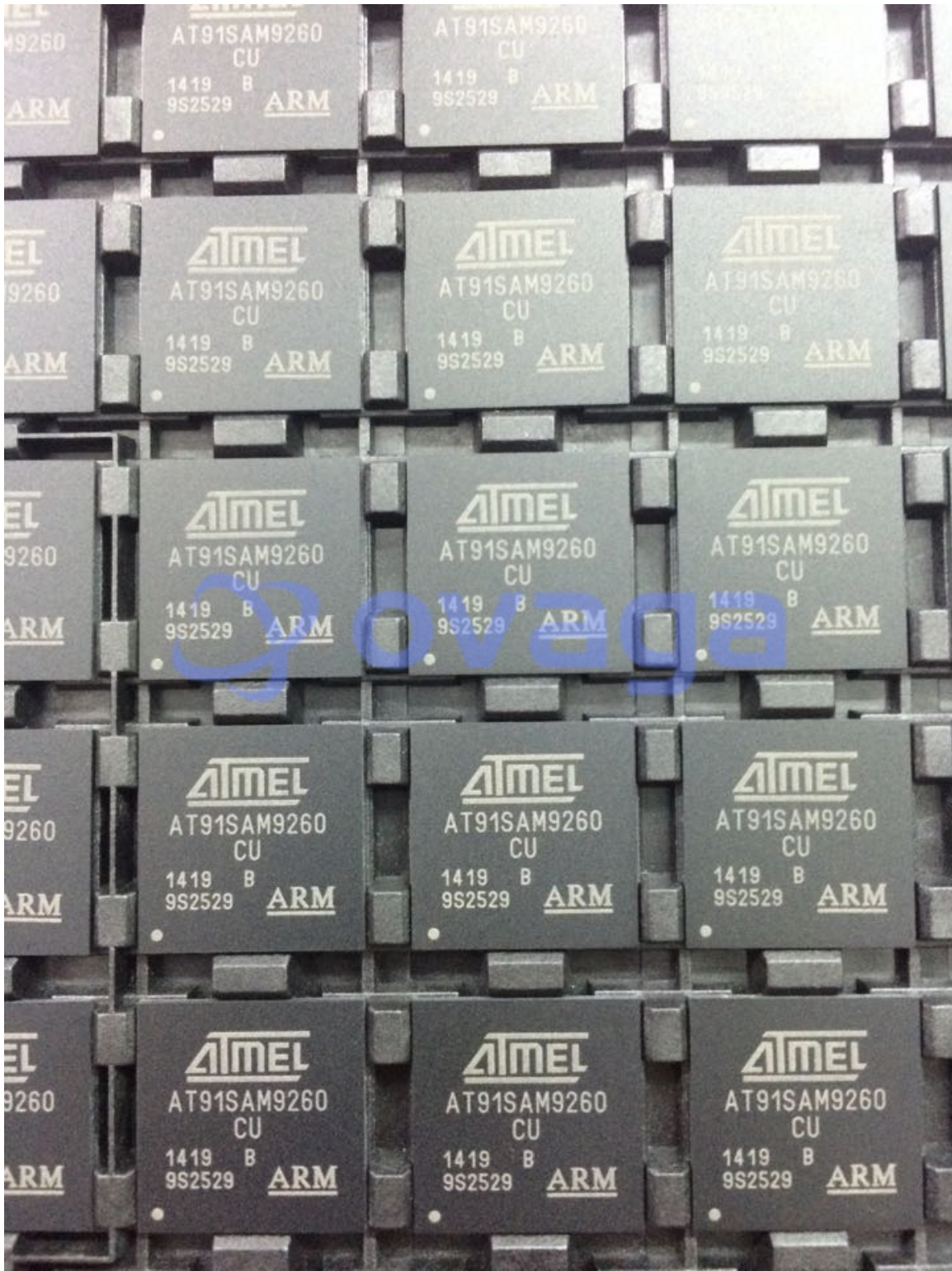
1.65V to 1.95V for VDDCORE, VDDOSC and VDDPLL

3.0V to 3.6V for VDDIOP (Peripheral I/Os) and for VDDIOM (Memory I/Os)

Packages:

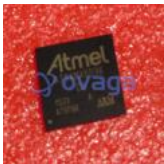
208-pin Green PQFP

217-ball RoHS-compliant LFBGA





Related Products



[ATSAMA5D36A-CU](#)

Microchip Technology, Inc
LFBGA-324



[ATMEGA32M1-AU](#)

Microchip Technology, Inc
TQFP-32



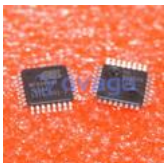
[ATXMEGA128D3-AU](#)

Microchip Technology, Inc
TQFP-64



[ATTINY2313V-10SU](#)

Microchip Technology, Inc
SOIC-20



[ATMEGA64M1-15AZ](#)

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TQFP-32



[ATMEGA16L-8PU](#)

Microchip Technology, Inc
PDIP-40



[ATTINY48-MU](#)

Microchip Technology, Inc
VQFN-32



[ATTINY4-TSHR](#)

Microchip Technology, Inc
SOT-23-6