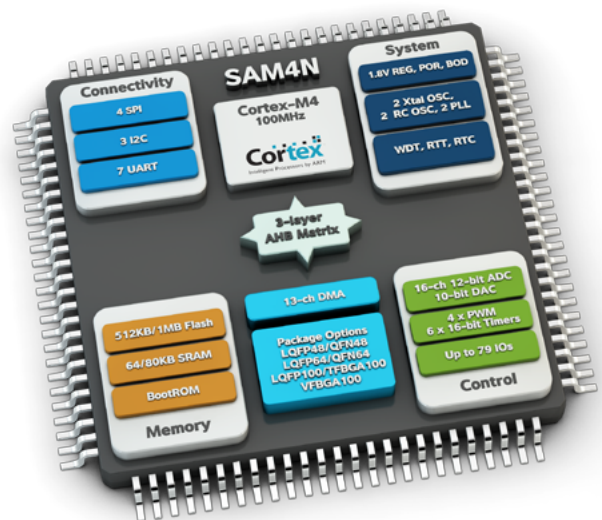


Atmel SAM4N

Entry Point to the Atmel ARM Cortex-M4-Based Flash MCU Portfolio

The Atmel® SAM4N series comprises the entry point to our portfolio of ARM® Cortex®-M4-based Flash microcontrollers (MCUs). These MCUs feature a 100MHz operating frequency and offer up to 1MB of Flash, multiple serial communication peripherals, and analog capability. This combination of features—plus low power consumption—makes the SAM4N series ideal for a wide range of applications in industrial automation, consumer and appliance, and energy metering markets.

The SAM4N series offers pin-to-pin compatibility with Atmel SAM4S, SAM3S, SAM3N and SAM7S devices, facilitating easy migration within the portfolio.



Key Features

- **High level of integration** — SAM4N devices offer fast serial communication with seven UARTs, four SPIs and three I²Cs. Additional features include 12-bit ADC, 10-bit DAC, integrated voltage reference, multiple timers, PWM and more.
- **Low power consumption** — With its low-power architecture, the SAM4N MCU achieves power consumption levels down to 170µA/MHz in Active mode; as low as 20µA in sleep mode with full RAM retention and wake-up time down to 10µs; requiring as little as 1µA in backup mode with the RTC running.
- **Ease of use** — The ecosystem of software tools and support for the Atmel Studio 6 integrated development platform (IDP) enables an efficient design process and reduces time to market.

Key Applications

- **Industrial Automation and M2M (machine-to-machine)**
 - Process transmitters
 - RF modules
 - Asset tracking
- **Consumer and Appliance**
 - Toys and mobile accessories
- **Energy Metering**
 - Smart meters
 - Low-end data concentrators
- **Building and Home Control**
 - Sensors and actuators
 - Control panels
 - Room control units
 - Keypads
 - Low-cost gateways(WAN/HAN) (wireless- and home-area-network)



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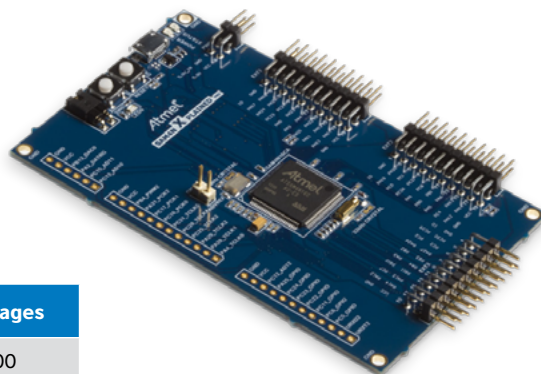
Design Tools and Ecosystem

Atmel offers a full suite of hardware tools for evaluation and prototyping with the SAM4N series. All SAM4N evaluation tools are supported by the Atmel Studio 6 IDP and integrated Atmel QTouch® library support for buttons, sliders and wheels.

They are backed by a worldwide support ecosystem of industry-leading suppliers of development tools, real-time operating systems, and middleware products to make your design process easier and reduce time-to-market.

SAM4N Xplained Pro

The Atmel Xplained Pro platform consists of a main board with multiple expansion ports plus extension boards, including OLED LCD displays, buttons, sensors and more. The board is available as a standalone kit. The extension boards can also be purchased separately.



SAM4N Ordering Information

Device Name	Flash (Kbytes)	SRAM (Kbytes)	Green Packages
ATSAM4N16CA-CFU	1024	80	VFBGA100
ATSAM4N16CA-CU	1024	80	TFBGA100
ATSAM4N16CA-AU	1024	80	LQFP100
ATSAM4N16BA-AU	1024	80	LQFP64
ATSAM4N16BA-MU	1024	80	QFN64
ATSAM4N8CA-CFU	512	64	VFBGA100
ATSAM4N8CA-CU	512	64	TFBGA100
ATSAM4N8CA-AU	512	64	LQFP100
ATSAM4N8BA-AU	512	64	LQFP64
ATSAM4N8BA-MU	512	64	QFN64
ATSAM4N8AA-AU	512	64	LQFP48
ATSAM4N8AA-MU	512	64	QFN48



Atmel Corporation 1600 Technology Drive, San Jose, CA 95110 USA **T :** (+1)(408) 441.0311 **F :** (+1)(408) 436.4200 | **www.atmel.com**

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.