

ATSAMD20E16A-AU

Data Sheet

ARM MCU, SAM D Series, SAM32 Family SAM D2X Series Microcontrollers, ARM Cortex-M0+, 32bit, 48 MHz

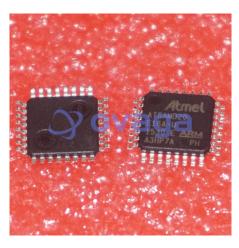
Manufacturers <u>Microchip Technology, Inc</u>

Package/Case TQFP-32

Product Type Embedded Processors & Controllers

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for ATSAMD20E16A-AU or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

A low-power, high-performance Microchip's ARM® Cortex®-M0+ based flash microcontroller, the ATSAMD20E16 is ideal for a wide range of home automation, consumer, metering, and industrial applications. It features:

64KB of flash and 8KB of SRAM

Up to 48MHz operating frequency

Four serial communication modules (SERCOM) configurable as UART/USART, SPI or I2C, six 16-bit timer/counters, 32-bit Real Time clock and calendar, 10 PWM channels, one 10-channel 12-bit ADC, one 10-bit DAC

Support for up to 60 touch channels

1.62V to 3.63V power supply

Easy pin migration to SAMD20G and SAMD20J devices

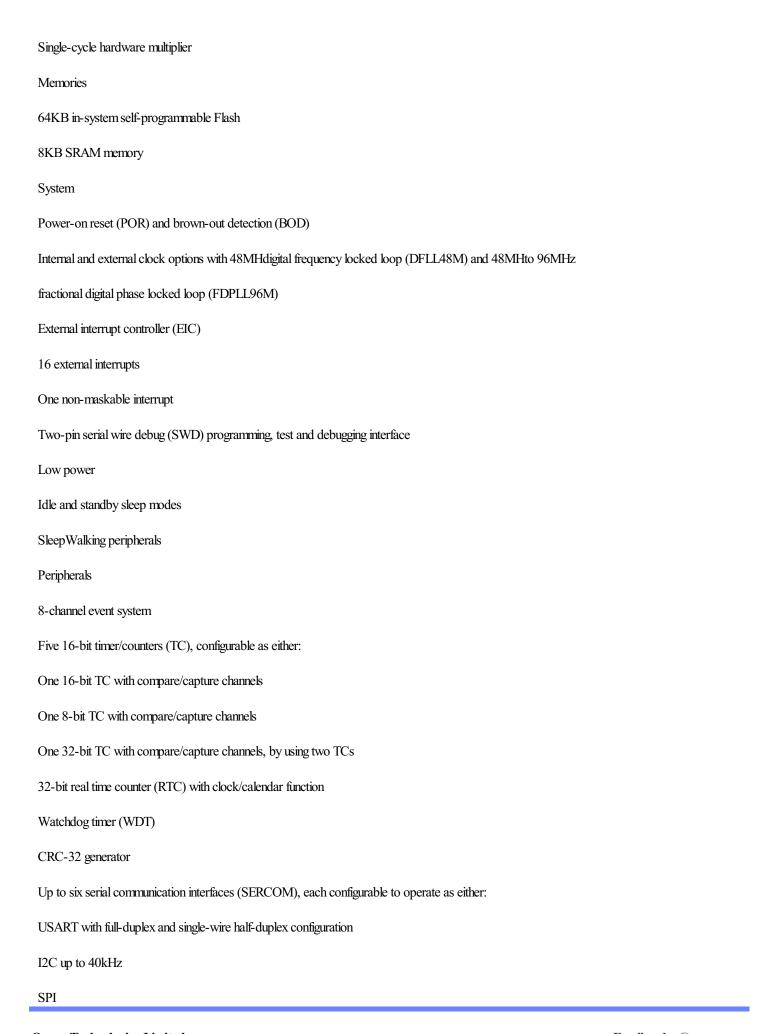
Supported by Atmel Studio, ASF and the SAM D20 Xplained Pro kit

Supported by MPLAB X IDE and MPLAB Harmony.

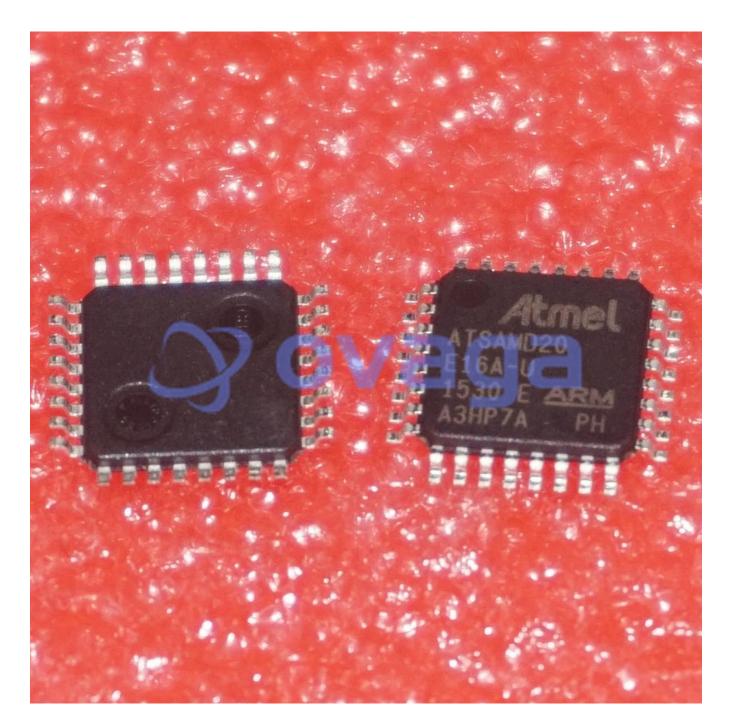
Features

Processor

ARM Cortex-M0+ CPU running at up to 48MHz



One 12-bit, 350ksps analog-to-digital converter (ADC) with 10 channels
Differential and single-ended input
1/2x to 16x programmable gain stage
Automatic offset and gain error compensation
Oversampling and decimation in hardware to support 13-, 14-, 15- or 16-bit resolution
10-bit, 350ksps digital-to-analog converter (DAC)
Two analog comparators (AC) with window compare function
Peripheral Touch Controller (PTC)
256-channel capacitive touch and proximity sensing
I/O
26 GPIO pins
Packages
32-pin TQFP, QFN
Operating voltage
1.62V to 3.63V
Power Consumption
Down to 70µA/MHz in active mode
Down to 8µA running the peripheral Touch Controller
Temperature range



Related Products



ATSAMA5D36A-CU Microchip Technology, Inc LFBGA-324



ATXMEGA128D3-AU

Microchip Technology, Inc
TQFP-64



ATMEGA32M1-AU
Microchip Technology, Inc
TQFP-32



ATTINY2313V-10SU

Microchip Technology, Inc
SOIC-20



ATMEGA64M1-15AZ
Microchip Technology, Inc
TQFP-32



Microchip Technology, Inc PDIP-40

ATMEGA16L-8PU



ATTINY48-MU Microchip Technology, Inc VQFN-32



ATTINY4-TSHR

Microchip Technology, Inc
SOT-23-6