

MCU 8-bit AVR RISC 16KB Flash 2.5V/3.3V/5V 20-Pin VQFN EP T/R

Manufacturers	Microchip Technology, Inc
Package/Case	VQFN-20
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ATTINY1616-MFR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ATtiny1616 is a microcontroller featuring the 8-bit AVR® processor with hardware multiplier - running at up to 20MHz and with 16 KB Flash, 2 KB SRAM and 128 bytes of EEPROM in 20-pin packages. The series uses the latest Core Independent Peripherals with low power features. Including Event System, intelligent analog and advanced peripherals. Capacitive touch interfaces with proximity sensing and driven shield are supported by the integrated QTouch® peripheral touch controller.

Functional Safety: This product is recommended for safety critical applications targeting both industrial and automotive products (IEC 61508 and ISO 26262). Necessary documentation such as FMEDA report and Safety Manual can be provided on request. Please contact your local Microchip sales office or your distributor for more information.

Features

Hardware multiplier

Three sleep modes:

Idle

Standby

Power Down

Event System

Watchdog Timer (WDT)

Power-On Reset (POR)

Brown-Out Detection (BOD)

Single pin programming and debugging interface (UPDI)

12 Channel 10-bit ADC with Voltage Reference

Peripheral Touch Controller (PTC)

8-bit Digital to Analog Converter (DAC)

Comparators

Configurable Custom Logic (CCL)

1x 12-bit Timers (TCD)

2x 16-bit Timer (TCA / TCB)

Cyclical Redundancy Check (CRC/SCAN)

12 channels self-capacitance

36 mutual-capacitance buttons supported

SPI / I2C / USART

Related Products



[ATSAMA5D36A-CU](#)

Microchip Technology, Inc
LFBGA-324



[ATMEGA32M1-AU](#)

Microchip Technology, Inc
TQFP-32



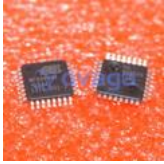
[ATXMEGA128D3-AU](#)

Microchip Technology, Inc
TQFP-64



[ATTINY2313V-10SU](#)

Microchip Technology, Inc
SOIC-20



[ATMEGA64M1-15AZ](#)

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[ATMEGA16L-8PU](#)

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PDIP-40



[ATTINY48-MU](#)

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VQFN-32



[ATTINY4-TSHR](#)

Microchip Technology, Inc
SOT-23-6