

**Specifications:-**

- Advanced RISC Architecture.
- 32 x 8 General Purpose Working Registers.
- Fully Static Operation.
- Up to 16 MIPS Throughput at 16 MHz.
- On-chip 2-cycle Multiplier.
- High Endurance Non-volatile Memory segments.
- 16 Kbytes of In-System Self-programmable Flash program memory.
- 512 Bytes EEPROM.
- 1 Kbyte Internal SRAM.
- Write/Erase Cycles: 10,000 Flash/100,000 EEPROM.
- Optional Boot Code Section with Independent Lock Bits.
- In-System Programming by On-chip Boot Program.
- True Read-While-Write Operation.
- Programming Lock for Software Security.
- JTAG (IEEE std. 1149.1 Compliant) Interface.
- Boundary-scan Capabilities According to the JTAG Standard.
- Extensive On-chip Debug Support.
- Programming of Flash, EEPROM, Fuses, and Lock Bits through the JTAG Interface.
- Peripheral Features.
- Two 8-bit Timer/Counters with Separate Prescalers and Compare Modes.
- One 16-bit Timer/Counter with Separate Prescaler, Compare Mode, and Capture Mode.
- Real Time Counter with Separate Oscillator.
- Four PWM Channels.
- 8-channel, 10-bit ADC.
- 8 Single-ended Channels.
- 7 Differential Channels in TQFP Package Only.
- 2 Differential Channels with Programmable Gain at 1x, 10x, or 200x.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- Byte-oriented Two-wire Serial Interface.
- Programmable Serial USART.
- Master/Slave SPI Serial Interface.
- Programmable Watchdog Timer with Separate On-chip Oscillator.

**Applications of ATmega16A Microcontroller:-**

- Multiple DIY projects.
- Projects requiring more than logical control for devices.
- Microcontroller applications for multiple device interface/Control.
- Replacement for Arduino module.
- Needs a USB AVR programmer.

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