



**PRODUCT NAME** : ATmega32 Microcontroller

**PRICE** : Rs 175.00  
**SKU** : RM0076

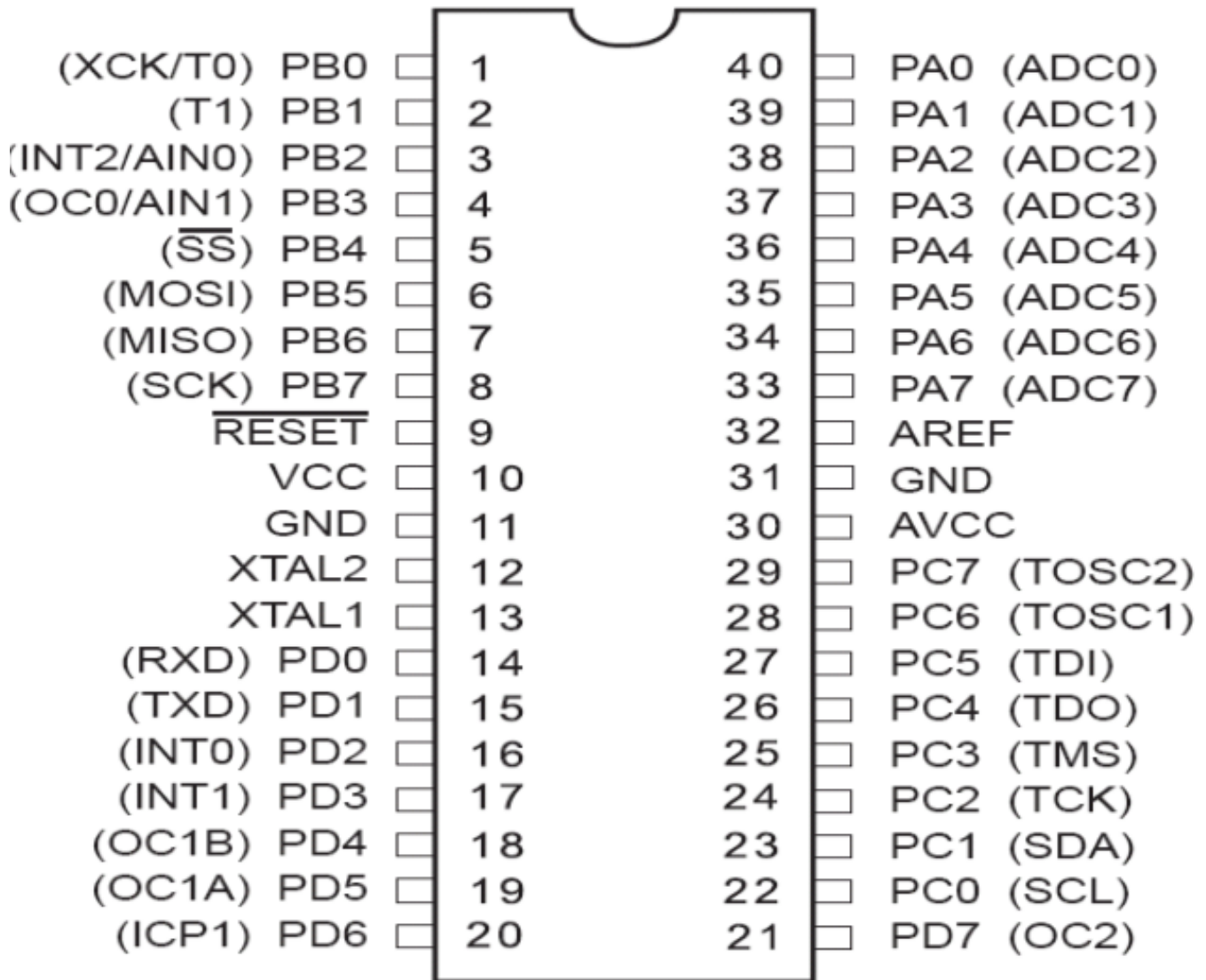


## DESCRIPTION

The high-performance, low-power Atmel 8-bit **AVR RISC-based microcontroller** combines 16KB ISP flash memory, 1KB SRAM, 512B EEPROM, an 8-channel/10-bit A/D converter (TQFP and QFN/MLF), and debugWIRE for on-chip debugging. The device supports a throughput of 20 MIPS at 20 MHz and operates between **2.7-5.5volts**.

By executing powerful instructions in a single clock cycle, the device achieves throughputs approaching 1 MIPS per MHz, balancing power consumption and processing speed.

## Images/Pinout of ATmega32 Microcontroller



### Features of ATmega32 Microcontroller:

- Operating Voltage: **4.5V to 5V**
- 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.
- 32 Kbytes of In-System Self-programmable Flash program memory.
- 1024 Bytes EEPROM.
- 2 Kbyte Internal SRAM.
- Write/Erase Cycles: **10,000 Flash/100,000 EEPROM.**
- Data retention: 20 years at **85°C/100 years at 25°C(1).**
- 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.

- Extensive On-chip Debug Support.
- 8 Single-ended Channels.
- Byte-oriented Two-wire Serial Interface.
- Programmable Serial USART.
- Master/Slave SPI Serial Interface.
- Programmable Watchdog Timer with Separate On-chip Oscillator.

### **Applications of ATmega32 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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