

# Intel 8051 microcontroller

The Intel MCS-51, also known as the 8051, is an 8-bit microcontroller developed in 1980 by Intel.

Derivatives of the 8051 are still widely used today.

## Features

- Capable of addressing 64 kilobits of program memory and 64 kilobits of data memory
- 4 kilobits of on-chip ROM
- 128 bytes of on-chip RAM
- Special function registers (SFR) - control/monitor various aspects of 8051's functions
- 2 timers/counters
- Serial/UART
- 4 GPIO 8-bit ports
- Interrupt logic with 5 interrupt sources

## Notes on 8051

- [8051 memory access](#)
- [UART on the 8051](#)
- [8051 assembly](#)
- [Interrupts on the 8051](#)
- [I/O on the 8051](#)

## References

- Programming and Interfacing the 8051 Microcontroller in C and Assembly, Sencer Yeralan

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