

# HD6805X0

## MCU (Microcomputer Unit)

The HD6805X0 is the 8-bit single chip Microcomputer Unit (MCU) which contains a CPU, on-chip clock, ROM, RAM, I/O and timer. The HD6805X0 is a member of HD6805 family and has more I/O ports and serial I/O than HD6805V1.

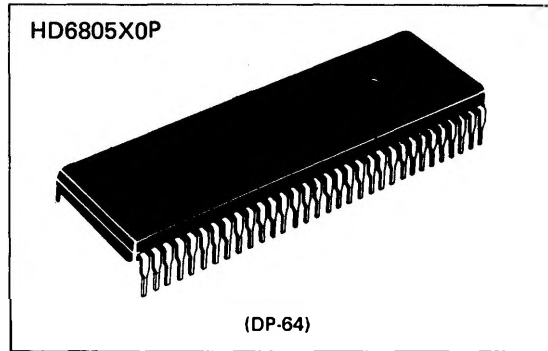
### ■ HARDWARE FEATURES

- 8-Bit Architecture
- 96 Bytes of RAM
- Memory Mapped I/O
- 4096 Bytes of ROM
- Internal 8-Bit Timer with 7-Bit Prescaler
- Vectored Interrupts — 2 External, Timer, Soft and Serial I/O
- 56 I/O Lines (16 Lines LED Compatible)
- On-Chip Serial I/O (Usable as Timer)
- On-Chip Clock Circuit
- Self-Check Mode
- Master Reset
- Low Voltage Inhibit
- Complete Development System Support by Evaluation Kit
- 5 Vdc Single Supply

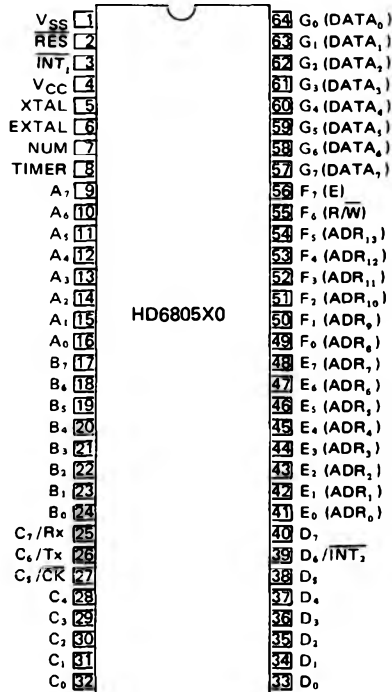
### ■ SOFTWARE FEATURES

- Similar to HD6800
- Byte Efficient Instruction Set
- Easy to Program
- True Bit Manipulation
- Bit Test and Branch Instruction
- Versatile Interrupt Handling
- Powerful Indexed Addressing for Tables
- Full Set of Conditional Branches
- Memory Usable as Registers/Flags
- Single Instruction Memory Examine/Change
- 10 Powerful Addressing Mode
- All Addressing Modes Apply to ROM, RAM and I/O
- Compatible with MC6805P2
- Compatible with HD6805V1, HD6805U1

## —ADVANCE INFORMATION—



### ■ PIN ARRANGEMENT



(Top View)

■ BLOCK DIAGRAM

