HD68P01S0, HD68P01V07.

MCU (Microcomputer Unit) PRELIMINARY

The HD68P01 is an 8-bit single chip microcomputer unit (MCU) which significantly enhances the capabilities of the HMCS6800 family of parts. It can be used in production systems to allow for easy firmware changes with minimum delay or it can be used to emulate the HD6801 for software development. It includes 128 bytes of RAM, Serial Communications Interface (SCI), parallel I/O and a three function Programmable Timer on chip, and 2048 bytes, 4096 bytes or 8192 bytes of EPROM on package. It includes an upgrade HD6800 microprocessing unit (MPU) while retaining upward source and object code compatibility. Execution times of key instructions have been improved and several new instructions have been added including an unsigned 8 by 8 multiply with 16-bit result. The HD68P01 can function as a monolithic microcomputer or can be expanded to a 65k byte address space. It is TTL compatible and requires one +5 volt power supply. A summary of HD68P01 features includes:

FEATURES

- Expanded HMCS6800 Instruction Set
- 8 x 8 Multiply Instruction
- Serial Communications Interface (SCI)
- Upward Source and Object Code Compatible with HD6800
- 16-bit Three-function Programmable Timer
- Applicable to All Type of EPROM

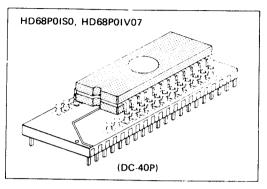
2048 bytes; HN462716 4096 bytes; HN462732

4096 bytes; HN462732 8192 bytes; HN482764

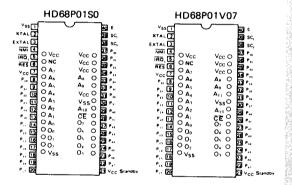
- 128 Bytes of RAM (64 bytes Retainable on Powerdown)
- 29 Parallel I/O and Two Handshake Control Line
- Internal Clock Generator with Divide-by-Four Output
- Full TTL Compatibility
- Full Interrupt Capability
- Single-Chip or Expandable to 65k Bytes Address Space
- Bus compatible with HMCS6800 Family

■ TYPE OF PRODUCTS

Type No.	Bus Timing	EPROM Type No.
HD68P01S0	1 MHz	HN462716
HD68P01V07	1 MHz	HN462732



■ PIN ARRANGEMENT (Top View)



BLOCK DIAGRAM

